

# AMERICAN NURSEYMAN

and The NATIONAL NURSEYMAN



NOVEMBER 1, 1939



**Physocarpus Monogynus**

Amendments to Social Security Act  
Root-inducing Substances in Amide Form  
Excerpts from a Plantsman's Notebook  
This Business of Ours — By Ernest Hemming

# AMERICAN NURSERYMAN

and The NATIONAL NURSERYMAN

F. R. KILNER, Editor

Published on 1st and 15th of month by  
AMERICAN NURSERYMAN  
PUBLISHING CO.

508 S. Dearborn Street, Chicago, Ill.  
Telephone: Wabash 8194

New York Office—67 West 44th Street  
N. L. Huebsch Tel., Murray Hill 2-4871

SUBSCRIPTION: \$1.00 per year; outside  
United States, \$1.50. Single copies, 10c.

ADVERTISING: Rates on application.  
Forms close five days before date of issue.

Entered as second-class matter Dec. 14, 1933,  
at Chicago, Ill., under act of March 3, 1879.

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## KNOW YOUR PROSPECTS.

Before you make a customer, in the majority of cases you have to find a prospect. Some sales are made to persons of whom you had no previous record or knowledge, but they are in the small minority.

Hence, if you wish to increase your sales, the first requisite is to increase the number of your prospects. Sales programs are built in relation to the reservoir of prospects, and the bigger the program the larger the reservoir required.

That is a maxim of mail-order firms. The prospect list should be fully as large as the number of your customers, and in most cases it should be considerably larger. If approximately ten per cent of your customers cease buying from you for one reason or another, it is necessary to replace them, and to yield a ten per cent return a prospect list must be an extraordinarily good one. So to expand sales, not to speak of maintaining them, a considerably larger prospect list is required.

To keep the reservoir well supplied, a good prospect list requires constant effort. If you use a mailing list, this means gathering names from new sources, while old ones are discarded. If you employ magazine or newspaper advertising, it means increasing the circulation you reach, provided circulation is available that makes contact with your possible prospects.

Of course, a magazine or newspaper depends upon its mailing list—subscribers—to provide you with a

## The Mirror of the Trade

good advertising medium. Hence it is adding new prospects in the form of subscribers, as old ones drop away. A magazine of steadily increasing circulation is particularly valuable, because it is adding prospects for you all the time.

Whatever form of selling you follow, attention should constantly be given to the list of prospects. There are always opportunities for sales overlooked, as every businessman has learned, and the most alert is he who sees that as few as possible escape attention. By knowing your prospects and adding to them constantly, you can make more sales.

## IMPROVED FARM DEMAND.

Conditions affecting the consumer demand for farm products continued to improve during the past month. A rate of industrial output approximating the June, 1929, peak may be attained before the year ends, but consumer incomes will still be about ten per cent less, due partly to a lower price level, according to the federal bureau of agricultural economics. Increases in foreign demand for farm products due to the war may be relatively slow in materializing.

The present sharp upswing of domestic industrial production no doubt is resulting in an accumulation of inventories in many lines. This may be followed by a considerable slowing down of industrial production sometime during the first half of 1940. The timing and severity of this period of readjustment will depend partly upon how far the inventory accumulation is carried, the way in which actual domestic consumption and export demand develop, and how nearly the

readjustment periods in the several important industries coincide. A recession growing out of these conditions probably will not accumulate sufficient force to offset other favorable factors in the situation and prevent further improvement in the general level of industrial activity and consumer incomes during most of 1940.

## PHYSOCARPUS MONOGYNUS.

Physocarpus monogynus is the smallest and most compact of all the ninebarks. It usually does not exceed three feet in height, bearing leaves from three-fourths of an inch to an inch and one-quarter in length. The leaves are rather deeply cut into three to five lobes. The lobes are rounded, sharply toothed and glabrous. This species is native of the region from South Dakota and Wyoming to Texas and New Mexico.

As with most of the ninebarks, this species is not especially showy in flower and fruit. The flowers are small and pinkish and are borne in a cluster of only a few blooms. The flowers are produced in June. The small fruit pods, borne in clusters, often turn quite red and showy.

Physocarpus monogynus is not particular as to culture and exposure. It does well in a wide variation of soils, stands drought well and is satisfactory in either sun or shade. Propagation is by hardwood or softwood cuttings or by seeds.

There is no doubt that Physocarpus monogynus is one of our best low foliage shrubs. It is dense, the texture is fine, and it possesses the quality of bearing the leaves well to the ground. The yellowish-green cast of the foliage may be raised as an objection to this plant, but this color is not objectionable in many situations. This plant can be used as a small foliage plant in the foundation planting or in the foreground of the shrub border. It also does well as a dwarf hedge plant. L. C. C.

RASPBERRY anthracnose is controlled easily by spraying the canes with summer-strength liquid lime-sulphur having a specific gravity of 1.006, to prevent its overwintering, and by burning the old canes that are infected.

## NO CANVASSERS EMPLOYED.

Subscriptions to the American Nurseryman are handled only by mail, and subscribers are warned not to pay money to strangers. If a cut-price or premium offer is made, you will know such strangers are swindlers, because no one is authorized to make such special offers.

Only news representatives of the magazine may accept subscriptions, and they are well known to the trade in their respective localities. If you do not know the person who invites you to subscribe, do not pay him money, but send it direct by mail to this office.

# AMERICAN NURSERYMAN

[Registered U. S. Patent Office]

*The Nurseryman's Forte: To Make America More Beautiful and Fruitful*

NOVEMBER 1, 1939

## Amendments to Social Security Act

*Changes Especially Important to Nurserymen Will Take Effect on January 1, 1940, among Them the Revised Definition of Agricultural Labor Exempting More Employees*

The first amendments to the social security act, signed August 10 by President Roosevelt and, with certain exceptions, taking effect January 1, 1940, include a number of changes important to nurserymen.

In general, the most important amendment is that which continues through 1942 the present tax rate of one per cent on employer and on employee, instead of the increase to one and one-half per cent which was to become effective in 1940 under the original law.

The old age tax continues to be levied on the first \$3,000 of wages paid to an employee. Effective 1940, each employer will continue to pay the employer's tax and to deduct and pay the employee's tax on the first \$3,000, regardless of the fact that the employee may be receiving wages from other employers. But the employer working for more than one employer will be permitted to file an application for refund of the tax paid on his own behalf on wages exceeding a total of \$3,000 from all employers.

### Unemployment Tax on \$3,000.

Whereas at present the federal unemployment insurance tax applies on the total amount of wages payable, beginning January 1, 1940, only the first \$3,000 of wages paid to each employee will be taxable, just as in the case of the old age benefits tax.

In paying the unemployment insurance tax in January, 1940, it should be noted, the entire amount of taxable wages to each worker should be included, even if more than \$3,000, as that tax covers 1939 wages. Beginning with 1940, the tax for unemployment insurance will be levied on wages paid, so that the basis for both old age and federal unemployment

insurance taxes will be the same, including only the first \$3,000.

Some states have already amended their laws so that the state unemployment compensation tax will apply on only the first \$3,000 of wages paid to each calendar year, beginning in 1940. These states include Arkansas, California, Florida, New Jersey, Ohio, Oregon, South Carolina, South Dakota, Vermont, Washington and West

**Clearer definition of agricultural labor in the amendments to the social security act materially extends exemptions of nursery employees beyond the present status. The saving in taxes to members of the American Association of Nurserymen alone was estimated at \$70,000 per year by Clarence O. Siebenthaler in his report as chairman of the legislation committee at the Portland convention. After January 1, 1940, employees doing landscape planting, maintenance workers, bookkeepers and other office employees if the services are rendered in major part on a farm will be added to the list of nursery workers exempt.**

Virginia. The probability is that other state laws will be amended to bring them in line with the federal change, so that the saving on pay roll tax will be both federal and state.

### Statement to Employees.

Beginning in 1940, employers will be required to furnish each employee a written statement, which he can retain, covering a period of one calendar year, or from one to four calendar quarters, carrying the following information: Employer's name, employee's name, period covered by statement, total wages paid, amount of old age benefits tax deducted from employee's wages.

The statement must be furnished to the employee not later than the last day of the second calendar month following the period covered by the statement. When an employee leaves, however, the final statement must be furnished on the day on which the last payment of wages is made. If an employer desires, he can furnish the statement to the employee at the time of each payment of wages, instead of quarterly, and in such case the statement is to show the date of wage payments, instead of the period covered by the statement. A penalty of \$5 is provided for each failure to furnish such statement to an employee.

### Tax on Employees over 65.

Under the original social security act, when an employee reached 65 his wages were immediately exempted from the federal old age benefits tax. Similarly, his earnings after reaching that age were not used as a basis for computing benefits. One of the new amendments requires that both the employer and the affected employee pay taxes on earnings of the worker over 65. This amendment became ef-



fective August 10, 1939, and the application of the tax on employees over 65 is retroactive to the beginning of this year.

The employer must pay his one per cent tax on each employee over 65 for all wages paid him since the first of the year. Collection of the tax from the employee is another matter. If the employee over 65 is employed on November 8, 1939 (ninety days after the effective date of the amendment), the employer must either collect or assume payment for the back tax for wages earned since January 1, 1939. But if the employment of the worker over 65 is terminated before November 8, the employer will not be held responsible for the collection or payment of the employee's back tax, except in case the employer has in his possession money belonging to such employee.

#### **Refunds for Earlier Taxes.**

Employers who failed to obtain credit against the federal unemployment insurance tax for state contributions for 1936, 1937 and 1938, because the state payments were made too late, are now entitled to and should apply for a refund of ninety per cent of the three per cent federal tax which was paid for such year or years. The claim for refund may be filed within four years after the date of payment of the federal tax, and form 843 is to be used, which can be secured from a local collector's office.

#### **Payments Not Taxable.**

After January 1, 1940, an employer will be permitted to exclude from the taxable pay roll for both old age and unemployment insurance taxes the following: Group insurance payments for retirement benefits, sickness or accident disability and, under certain provisions, death benefits; dismissal payments which the employer is not legally required to make; employee's old age tax or state unemployment compensation contributions, when assumed and paid by the employer without deduction from the remuneration of the employee.

#### **Agricultural Labor.**

The exemption of agricultural labor is continued, and a new subsection was inserted defining the term more clearly. The definition has considerably broadened the scope of the exemption by excluding numerous types of services considered to be an in-

tegral part of farming activities, but heretofore held to be taxable employment. The first paragraph of the definition exempts service performed on a farm, in the employ of any person, in cultivating the soil or in raising or harvesting any agricultural or horticultural commodity, including nursery products.

The second paragraph of the definition exempts services in the employ of the owner or tenant or other operator of a farm in connection with the operation, management, conservation, improvement or maintenance of such farm and its tools and equipment, if the major part of those services is performed on a farm. Services exempt under this paragraph may include, for example, services performed by carpenters, painters, farm supervisors, irrigation engineers, bookkeepers, stenographers, night watchmen, packing house employees and other skilled or semiskilled workers whose services contribute in any way to the proper conduct of the farm or the farms operated by their employers. It is stipulated that the services must be performed in the employ of the owner or tenant or other operator of the farm, so that the exemption will not extend to services performed by such persons as employees of a commercial painting concern, for example, which contracts with a farmer to renovate his property.

The fourth paragraph of the subsection extends the exemption to service, though not performed in the employ of the owner or tenant or other operator of a farm, performed in the handling, planting, freezing, grading, storing or delivery to storage or to market or to a carrier for transportation to market, of any agricultural or horticultural commodity, provided such service is performed as an incident to ordinary farming operations. The expression "as an incident to ordinary farming operations" is, in general, intended to cover all services of the character described in the paragraph which are ordinarily performed by the employees of a farmer or by employees of a farmers' cooperative organization or group, as a prerequisite to the marketing, in its unmanufactured state, of any agricultural or horticultural commodity produced by such farmer or by the members of such organization or group. The expression also includes the delivery of such commodity to the place where, in the ordinary and natural course of

the particular kind of farming operation involved, the commodity accumulates in storage for distribution into the usual channels of commerce and consumption.

The word "planting" was inserted by the Senate finance committee as a result of the effort of the American Association of Nurserymen in behalf of its members doing a landscape business. The planting of nursery stock on a client's premises is to be considered as a prerequisite to marketing, in the opinion of the A. A. N. executive secretary, since the planting operation is part of the marketing agreement, for sale is made subject to planting.

#### **Salesmen Still Exempt.**

No change was made in the status of agents and outside salesmen, and they are still exempt from the tax. When the bill was first before Congress, salesmen and agents were included under the law, but later this provision was stricken out.

#### **PARK EXECUTIVES CONCUR.**

With the endorsement of the A. A. N. convention at Portland, Robert Pyle, chairman of the botanical gardens and arboretums committee, presented a resolution at the recent convention of the American Institute of Park Executives, at Philadelphia, urging action toward developing in localities where there is no arboretum a section of a suitable park for that purpose. He further advanced the idea of organizing an American association of arboretum executives, which met with favor. In consequence, the park executives at Philadelphia adopted the following resolution:

Moved, that the president of American Institute of Park Executives be directed to appoint a committee on arboretums and botanical gardens, whose duties shall be to extend encouragement and assistance to member executives in the building of an arboretum as a part of any park where such establishment will prove advantageous; and, further, this committee shall be requested to promote the plan whereby there may be set up in accord with their own expressed desire an organization of arboretum executives, which group shall be invited to hold their annual meetings in association with annual conventions of American Institute of Park Executives.

THE purchase of shrubbery and trees from the Schell Nursery Co. for the landscaping of the seven public schools of Amarillo, Tex., has been authorized by the board of trustees of the Amarillo independent school district and Amarillo College.



# Root-inducing Substances in Amide Form

*Comparison of Their Use with Indole Acids Suggests Promising New Development*

—By V. T. Stoutemyer, Bureau of Plant Industry, U. S. Department of Agriculture

Alpha-naphthaleneacetic acid is one of the most effective of the root-inducing substances, but it has not been used so extensively as the indole acids in practical propagation because of the much greater toxicity to plant tissues when the dosage is not confined within a narrow range of optimal concentrations. When an excessive amount is applied to a cutting by any method of application, the death of large areas of tissue or even the entire cutting ensues. Although less toxic, all of the synthetic growth substances, including indoleacetic acid or indolebutyric acid, produce the same effects in excessive concentrations.

The apparently hitherto untried amide derivatives of several well known growth substances, as tested by the author, seem to be remarkably devoid of toxic effects and, at the same time, highly effective in promoting root initiation. In the following experiments, phenylacetamide, 1-naphthylacetamide and 1-naphthylthioacetamide were used. The action of these compounds was compared with that of naphthaleneacetic acid and, to a lesser extent, with the indole acids. The amides showed response of a type which is unlike that of any of the free acids now in use as growth substances or their salts or esters. With the amides, increases in dosage to the point of excess rarely produced the usual signs of toxicity other than diminution or inhibition of root formation, while the cuttings remained in an apparently healthy condition. Thus with *Pachysandra terminalis*, treatment of the cuttings with a mixture of one part of naphthaleneacetic acid in 250 parts of talc in one instance killed most of the cuttings, while the same strength of naphthylacetamide produced heavy rooting. With the latter chemical, a concentration as high as one part in 50 parts talc produced good rooting. With *Ligustrum ovalifolium*, this strength practically inhibited rooting. With the amides, signs of injury to the cuttings were rare, and in trials with other species, excessive concentrations merely delayed or inhibited rooting. The amide group in these chemicals apparently gave to the cuttings much

latitude of dosage and an even greater freedom from toxic effects than is possessed by the indole compounds.

In our trials, the amides, including phenylacetamide, naphthylacetamide and naphthylthioacetamide, usually appeared to be about as active in root formation as the free acids or sometimes definitely superior. The stronger root-forming action cannot be explained on the basis of solubility, since the amides are less soluble than the free acids.

Phenylacetamide produced excellent rooting of softwood cuttings, particularly when the dosages were increased over those normally used with the most common growth substances in talc dust mixtures. Though the various phenyl compounds produce excellent responses on leafy softwood cuttings, they often fail on hardwood cuttings or with difficult subjects where needed most.

The chemicals used in these trials were mixed with talc, according to the method of preparation and usage reported previously by the author<sup>1</sup> and the mixtures contained one part of growth substance to 1,000, 250, 100 and 50 parts of powdered talc. The powders were applied by dipping the moistened basal ends of the cuttings in the mixtures and tapping the cuttings lightly to remove excess amounts.

Since good conditions for propagation were maintained in this experiment, the percentage of rooting was frequently high in all lots. The heaviness of the roots in the various treatments was compared by grading the cuttings in several arbitrary classes based on the number and length of roots produced. Thus, both the percentage of cuttings rooted and the relative sizes of the root systems in the various treatments could be compared. The criteria were necessarily changed somewhat to fit the characteristic types of root systems in the different species. Usually any cuttings having only one or two long roots or less than a half-dozen short roots were classed under "light root-

ing." Cuttings having an exceptionally vigorous root system were listed under "heavy rooting," but the distinction between this class and "medium rooting" was necessarily somewhat arbitrary. The "overtreatment type rooting" describes those cuttings in which roots emerged not only at the base of the cuttings, but also up the stem for a considerable distance. This type of rooting, though not necessarily injurious, is often considered undesirable and indicates that an excessively high concentration of growth substance was applied to the cuttings.

The test plants were divers in botanical relationships and native habitats. Usually twenty cuttings were used in each lot and all treatments were replicated whenever possible. The treatments included a graded series of concentrations assumed tentatively to be most suitable for the plant in question. The cuttings were rooted in sand in an outdoor propagating frame, in closed Wardian cases in a greenhouse or sometimes on open greenhouse benches. In the last-named situation, the cuttings were covered with a single layer of cheesecloth.

Data from some of the more extensive trials of rooting are summarized in table 1. The results in the various replications were remarkably uniform, and in order to condense and simplify the results, the combined averages are presented only for the treatments with concentrations near the optimal.

Our comparisons of the amides with indolebutyric acid or indoleacetic acid on an equal weight basis have usually shown the naphthylacetamide to have some advantage, although this is probably a coincidence resulting from the selection of test species. The naphthylacetamide has given results much superior to those obtained by using the indole acids on cuttings of *Pachysandra terminalis*, *Ligustrum ovalifolium* and hybrid Kurume-type azaleas. Some results with azalea cuttings are shown in table 2. The growth substances tried were all 1-250 talc dust mixtures, and replicated lots of twenty cuttings were used. This azalea is not a difficult subject to root, but the root systems produced by the naphthylacetamide were heavier than

<sup>1</sup>Stoutemyer, V. T. Talc as a carrier of substances inducing root formation in softwood cuttings. Proc. Amer. Soc. Hort. Sci. (1938) 36: 817-822. 1939.

those produced by other growth substances.

The results of the trials of rooting with various plants may be summarized as follows:

Naphthylacetamide produced rooting superior to that obtained with naphthaleneacetic acid in wood of both the previous and the current season of *Pachysandra terminalis*, and in softwood cuttings of *Melastoma* sp., *Forsythia viridissima* koreana, Chinese giant pepper, Havana tobacco and a hybrid abelia (*Abelia grandiflora* x *A. Schumannii*). Rooting responses were practically identical in cuttings of *Ligustrum ovalifolium*, *Gleditsia triacanthos* and *Deutzia crenata eburnea*.

Naphthaleneacetic acid produced slightly heavier rooting than naphthylacetamide in cuttings of *Actinidia arguta*, *Coriaria* sp. and *Hypericum* sp. and definitely superior rooting in *Diervilla floribunda* and *Pyracantha coccinea* Lalandii.

Naphthylthioacetamide, as used in these trials, usually gave results similar to those obtained with the naphthylacetamide, but produced much poorer rooting in *Melastoma* sp. and *Ligustrum ovalifolium*. Fifty per cent rooting was obtained on softwood cuttings of the somewhat difficult subject, *Prunus Mahaleb*, through treatment of the cuttings with naphthylthioacetamide, but the presence of damping-off fungi in all lots made interpretation of the results on this species uncertain.

Naphthylacetamide and naphthylthioacetamide are among the least toxic and most effective root-inducing substances known at present. The action of these compounds is unlike that of any of the synthetic growth substances now in common use, and this fact may have some important physiological implications.

#### Acknowledgments.

This report includes data secured in a cooperative investigation on problems of vegetative propagation of superior selections of economic erosion-resisting plants. These studies are conducted jointly by the division of plant exploration and introduction, bureau of plant industry, and the hill culture division, soil conservation service. The experiments in rooting of cuttings were conducted at the United States plant introduction garden, Glenn Dale, Md. Thanks are due to S. B. Detwiler, of the hill culture

Table 1.  
PER CENT OF ROOTING OF CUTTINGS TREATED WITH NAPHTHYL-  
ACETAMIDE (NAD) AND NAPHTHALENEACETIC ACID (NAA) IN TALC.

Subject and Rooting Period	Treatment	Total Percentage Rooted	Over-treatment Type Rooting	Heavy Rooting	Medium Rooting	Light Rooting	Alive Not Rooted	Dead
<i>Actinidia arguta</i> June 6 to June 21	None	37.5			12.5	25.0	60.0	2.5
	Talc	60.0			35.0	25.0	37.5	2.5
	NAA 1-1000	87.5	62.5	15.0	10.0		12.5	
	NAD 1-1000	70.0		10.0	25.0	35.0	25.0	5.0
<i>Abelia</i> hybrid ( <i>A. grandiflora</i> x <i>A. Schumannii</i> ) June 6 to June 21	None	20.0				20.0	45.0	35.0
	NAA 1-1000	15.0	10.0	5.0			20.0	65.0
	NAD 1-1000	85.0		35.0	10.0	40.0	5.0	10.0
<i>Coriaria</i> sp. July 1 to July 18	None	57.5			12.5	45.0	42.5	
	NAA 1-1000	85.0		50.0	27.5	7.5		15.0
	NAD 1-1000	75.0		12.5	32.5	30.0	25.0	
<i>Deutzia crenata eburnea</i> July 20 to Aug. 7	None	40.0			20.0	20.0	45.0	15.0
	NAA 1-1000	95.0		10.0	20.0	65.0		5.0
	NAD 1-1000	85.0		35.0	10.0	40.0	10.0	5.0
<i>Diervilla floribunda</i> June 5 to June 17	None	57.5		7.5	20.0	30.0	27.5	15.0
	Talc	85.0		25.0	35.0	25.0	7.5	7.5
	NAA 1-1000	97.5	5.0	75.0	17.5		2.5	
	NAD 1-1000	92.5		27.5	40.0	25.0		7.5
<i>Forsythia viridissima</i> koreana July 20 to Aug. 4	NAA 1-1000	85.0			40.0	45.0	15.0	
	NAA 1-250	75.0			25.0	50.0	25.0	
	NAD 1-1000	95.0			60.0	35.0	5.0	
	NAD 1-250	80.0			35.0	45.0	20.0	
<i>Hypericum</i> sp. July 19 to Aug. 7	None	42.5			2.5	40.0	57.5	
	NAA 1-1000	85.0	27.5	7.5	15.0	35.0	15.0	
	NAD 1-1000	72.5			27.5	45.0	27.5	
<i>Ligustrum ovalifolium</i> June 12 to July 17	None	45.0		7.5	12.5	25.0	55.0	
	Talc	30.0		7.5	10.0	12.5	70.0	
	NAA 1-1000	52.5		17.5	7.5	27.5	45.0	2.5
	NAD 1-1000	60.0		12.5	10.0	37.5	37.5	2.5
<i>Melastoma</i> sp. May 16 to May 25	NAA 1-250	80.0		57.5	7.5	15.0	20.0	
	NAD 1-250	70.0		42.5	7.5	20.0	30.0	
<i>Pachysandra terminalis</i> (Growth of previous season) May 3 to May 25	Talc	100.0				100.0		
	NAA 1-1000	100.0				100.0		
	NAD 1-1000	100.0						
<i>Pachysandra terminalis</i> (Growth of current season) May 25 to June 27	None	8.0				8.0	92.0	
	NAA 1-1000	56.0				56.0	44.0	
	NAD 1-1000	68.0				68.0	32.0	
	NAA 1-250	4.0		4.0				96.0
<i>Pachysandra terminalis</i> (Growth of current season) May 25 to June 27	NAD 1-250	88.0			88.0		12.0	
<i>Pyracantha coccinea</i> Lalandii June 7 to June 26	None	64.0				64.0	36.0	
	Talc	88.0				88.0	8.0	4.0
	NAA 1-1000	88.0			24.0	64.0		12.0
	NAD 1-1000	96.0			28.0	68.0		4.0
<i>Pyracantha coccinea</i> Lalandii June 7 to June 26	None	35.0			2.5	32.5	65.0	
	Talc	37.5				37.5	62.5	
	NAA 1-250	82.5		20.0	60.0	2.5	5.0	12.5
	NAD 1-250	77.5		12.5	25.0	40.0	20.0	2.5

Table 2.  
ROOTING RESPONSE OF AZALEA CUTTINGS TREATED WITH  
VARIOUS GROWTH SUBSTANCES.

Treatment	Rooting Period	Total Percentage Rooted	Over-treatment Type Rooting	Heavy Rooting	Medium Rooting	Light Rooting	Alive Not Rooted	Dead
Naphthylacetamide	June 15 to July 21 (In outdoor frame)	82.5		37.5	25.0	20.0	15.0	2.5
Indoleacetic acid		80.0			2.5	77.5	15.0	5.0
Indolebutyric acid		80.0		10.0	5.0	65.0	20.0	
Naphthylacetamide	June 15 to August 2 (In greenhouse)	85.0		52.5	10.0	22.5	2.5	12.5
Indoleacetic acid		80.0	10.0	15.0	17.5	37.5	12.5	7.5
Indolebutyric acid		65.0		20.0	20.0	25.0	15.0	20.0

division, for supplying the services and J. R. Jester, who assisted in the details of propagation.

# Excerpts from a Plantsman's Notebook

*Further Notes on the Culture, Propagation and Uses of Many Kinds of Plants Given Garden Trial in Years Past—By C. W. Wood*

## **Spigelia Marilandica.**

(July 10, 1925.) Old Adrian von der Spigel, who "was perhaps the first to give directions for preparing an herbarium" and who wrote on botany back in the early part of the seventeenth century, gave his name to a group of American plants, of which the Indian pink or pinkroot, *Spigelia marilandica*, is the only one I know. Although it inhabits rich woods throughout the middle west from Ohio and Missouri southward to the gulf states, it seems never to have gained the attention of gardeners except in isolated cases. That is not as it should be, nor are the words of half-praise one sometimes reads in books all that it deserves, because its one-sided cymes of yellow-throated, bright red flowers in May and June are among the brightest ornaments of its season that will grow in the amount of shade it endures. Although Barclay wrote in the *Cyclopedia of Horticulture* that "shade is not necessary for its welfare in good, loose, deep loam," I find that it suffers greatly in my dry, sandy soil if it is not well shielded from the sun, and it is always better here in soil that is always moist. The foregoing will tell experienced plant growers that in the pinkroot they are likely to find a plant that will be eagerly taken by gardeners with shady spots to clothe.

## **Hudsonia.**

(May 8, 1933.) *Hudsonia tomentosa* is a small heathlike shrubby plant, that should appeal to the grower of unusual items. So far as I know, it is not advertised in American catalogues, making it truly an out-of-ordinary plant. And it is out of the ordinary in many ways. True, it is not showy in the sense that many gardeners demand of their plants, but it possesses many charms which would endear it to the connoisseur. It is a densely tufted plant, with scalelike, downy persistent leaves, the upper part of each branch being covered with small, quite showy, bright yellow flowers during May and June. Here in Michigan the plant is found along the shores of the Great lakes in practically pure beach sand, which

in the situations selected by it is nearly always acid. It may be grown from seeds and, being closely related to the rockroses (*helianthemums*), may be expected to grow from cuttings.

## **Anemonopsis Macrophylla.**

(September 20, 1938.) *Anemonopsis*, because it is anemone-like, and *macrophylla*, because of its large leaves, would seem to be literally described by its name, yet that is rather misleading. It is scarcely anemone-like when judged from the gardener's viewpoint, because the petals, instead of spreading as in most anemones and especially so in *A. japonica*, to which it is most nearly comparable, form a sort of cone in the center of the sepals, the purple-tipped, white flowers nodding from the tops of the foot-tall stems. Nor are the leaves really large, but only comparatively so. They are, however, quite ornamental in their ternately compound form and incised edges, reminding one somewhat of the baneberry. This plant is a summer bloomer, delighting in rich soil and part shade. Propagation is from fall-sown seeds or by division of the roots in fall or early spring, preferably the latter, I believe.

## **Salvia Scabiosæfolia.**

(September 29, 1939.) Perennial salvias are so confused in gardens that I never feel safe in naming the ones that come my way. For instance, I thought I had found *Salvia nemorosa* after years of searching, but Dr. Bailey told a friend who submitted a plant for identification that it was not true *nemorosa*, but a hybrid which has recently been named *S. superba*. In any case, it comes as true from seed as one expects in a *salvia*. But what I started out to discuss was a plant, new to me last year, which was received as *S. scabiosæfolia*. The books say this is a white-flowered species from Tauria (*S. Habliziana* is a synonym) growing from a foot to eighteen inches in height. My plants answer that description, except that the flowers are tinged blue, sometimes with much of that color in the throat and on the lip. The books do not, however, say anything about the size of the flower, which is quite large for a

sage, being one of the best features in the plant. It flowers here for more than a month in early summer. A short acquaintance with a plant does not justify positive statements about its worth, but I am quite sure this one will be welcomed by gardeners if and when it is offered.

## **Salvia Digitalis.**

(September 29, 1939.) *Salvia digitalis* is another sage whose identity is obscured by the general confusion which exists in the genus. It is a Chinese plant, I believe, and like so many others from that country, is not reliably hardy in my garden. I shall be sorry to lose it, too, for its tuft of large, thick, gray-green leaves, with their layers of white wool on the underside, is an intriguing ornament throughout the open year. And its 20-inch branching stems, which carry whitish, violet-lipped flowers from June onward, complete a really worthy plant. It should do well in well drained soil and sun anywhere south of the latitude of Chicago and would no doubt be a ready seller.

## **Centaurium Scilloides.**

(September 29, 1939.) This paragraph is meant for southern readers who are looking for an out-of-ordinary item to offer their rock garden customers. The plant, *Centaurium scilloides*, comes from the Azores, and so is not extremely hardy, though it is not so tender as its warm home would indicate, as I proved to myself a year or two ago, when two or three of them in pots were overlooked and left in a coldframe over winter. I should expect them to be hardy south of Virginia, along the coast, and correspondingly farther south inland.

*Centaurium* is a member of the gentian family and, like many of the clan, rather tricky, some of the species being rather short-lived. Most of the species, including the present one, I believe, want an acid soil, sunshine and a fair amount of moisture. The beauty of *scilloides*, which includes an incredible number of rose-pink flowers on 3-inch stems for close to two months, beginning here in July, is surely worth the care needed to make



it happy. Seeds planted during the cool weather of early spring usually germinate fairly well, though I have had little success with them indoors. A coldframe is to be preferred to a greenhouse, I believe. Cuttings taken after the flowering season root readily in a shaded frame.

#### *Anacyclus Depressus.*

(April 5, 1939.) Not often will a plant from northern Africa stand the winters of northern Michigan, but the composite heading these notes, which is variously known as *anacyclus*, *chrysanthemum* and *pyrethrum*, is a notable exception. In fact it is notable for reasons other than its reaction to cold, its mat of silky, ferny foliage being a distinguished ornament throughout the year and its white daisies with crimson tips and crimson on the underside of the petals, which are held tightly against the foliage, make it noticeable during its long blooming period. The latter seems not to be a constant thing under midwest conditions, sometimes lasting throughout most of the summer, though it may be confined to a month or two in late spring and early summer. Anyway it is looked at, the plant is a winner for an open soil and sunny situation—one that attracts attention immediately. I think, though, that a word of caution should be set down about its hardiness, for I should dislike for growers 200 miles south of me to buy stock of it and find it unable to stand their climate. Because of the character of its foliage, I should not expect it to stand the moisture that it would have to endure on a flat surface in heavy soil. With perfect drainage and some protection from cold winds in snowless sections, one should experience little trouble with it. It is easily grown from fall-sown seeds and from cuttings taken in summer; spring cuttings seldom root for me.

#### *Erigeron Compositus.*

(June 11, 1923.) Generally speaking, the fleabanes excite little interest in gardeners. That is true, no doubt, because most of the kinds which have received much publicity are rather drab-looking. The state of affairs could be corrected, I am sure, if gardeners knew some of the kinds which are now blooming here. *Erigeron compositus* surely would help toward that end, especially now that rock gardening is beginning to take the public's fancy. Even when out of bloom, its tuft of

much-divided, gray foliage is pleasing to the eye if planted in masses, but, from May throughout June, when it reaches the height of its floriferousness, and then more sparingly throughout the summer if it does not suffer for moisture, it is indeed a little charmer. It makes conservative tufts, from which spring a succession of 2-inch stems, each bearing a solitary inch-wide daisy of white, lavender or even purple, depending upon what part of its wide range one's plants came from. Here, it does well in a sunny spot that is well drained and can usually get along on the ordinary amount of moisture.

(June 30, 1933.) A plant now in the garden under label of *E. trifidus* looks like an *E. compositus* that has had too rich food. Instead of the two inches of the latter this one has almost doubled that stature and is more leafy, and its lavender-lilac or white flowers are larger.

(September 29, 1939.) A plant new to me this year came in seeds

last spring as *E. compositus nudus* and, although it has not yet flowered here, looks like even a better plant than the type. It appears so far to be a more conservative grower, with perhaps lovelier foliage, because of an added dose of silver.

(Note) All these fleabanes are easily grown from seed and, unlike asters which require fall planting, usually come well from spring sowing. They may also be propagated from cuttings. The alpine kinds, of which the preceding are examples, are quite easily managed in ordinary garden soil that is well drained. I find they do better, though, if they are given leaf mold in the proportion of about one part to three parts of loam. That seems to help them through dry spells which might otherwise be too much for their high-born nature. Good drainage can not be too highly stressed, especially for the hairy one mentioned here.

#### *Astilbes.*

(September 30, 1939.) Although I do not try to grow the named forms of *Astilbe japonica*, because of the lack of proper soil and facilities, they are among my favorites of the saxifrage family, and I always have my eyes open for new varieties. Two new ones, Bremen and Fanal, seen this year gave me so much pleasure that I am glad to pass the good word along, for I am sure they will make money for every astilbe grower. The first may perhaps best be described as pinkish-carmine, an unusual color in astilbes, with flower spikes a foot or more in length. Fanal is also unusual in its deep garnet color, a darker shade of red than I have seen in these plants. Both should attract the attention of gardeners, and if you grow astilbes for forcing you can scarcely get along without them.

#### LEAD-LINED GARDEN POOLS.

Artificial garden pools need not look artificial, as the illustrations on this and the opposite pages show. When the design has been carefully thought out and a pool-building material is used which lends itself readily to concealment, the finished work often simulates nature so closely that even the most observant person is deceived.

The artificial pools shown are in the valley garden of the Archie Lee estate, St. Louis county, Mo. They were designed and installed under the supervision of John Noyes, St.



Lead-lined Small Pond and Brook.

Louis landscape architect. The project included the construction of three pools and a connecting brook. The pools, which range in size from the relatively small one seen in the single-column illustration to the large kidney-shaped pond shown separately, as well as the brook, were lined throughout with sheet lead.

In planning the garden, the architect's problem was to add the interest of water in the form of pools and cascades without spoiling the natural effect of a little brook which ran through the estate. To create the illusion of natural bodies of water in the grassy lowlands of the valley, it was felt that grass, shrubs and plants should grow literally at the water's edge with only occasional outcroppings of rock.

It was this desire to bring the plantings directly to the banks of the pools that influenced the selection of lead as the lining material. Had masonry been used, the sides of the pools would have had to be sufficiently thick to withstand the stress of temperature changes as well as to take the necessary reinforcing metal. Further, the thick sides would have left a wide, even border of an artificial material. This border could have been hidden only by using rock on top, which would have produced a necklace-like appearance, less pleasing than the occasional rock outcrop shown in the photographs.

Through the use of lead, it was possible to avoid hard, definite pool outlines. Rock was used where it seemed most natural—in forming small dams and projections. Shrubbery was planted so that it would overhang the banks of the pools and the stream, completely hiding the edges of the lead sheets which may be seen in the single-column illustration and that of the kidney-shaped pond, both of which are from photo-



General View of Pools in Garden after Landscaping.

graphs taken shortly after construction. The lead used for lining purposes was one-sixteenth inch thick, weighing approximately four pounds per square foot. About eight tons of lead were required for the complete development.

As many architects have discovered, sheet lead as a pool-building material has advantages over and above the "true to nature" effect it makes possible. For example, the cost of constructing a lead-lined pool is usually less than the cost of building pools of other materials. Less excavation is necessary, and there are no forms to build. Further, lead is a malleable metal, which conforms readily to the irregularities of the ground over which it is laid, facilitating installation. Finally, lead is durable and permanent. A properly constructed lead lining will last indefinitely and requires little or no maintenance, according to a recent article in the *Dutch Boy Quarterly*, published by the National Lead Co.,

New York, which permitted the foregoing quotation and use of the illustrations.

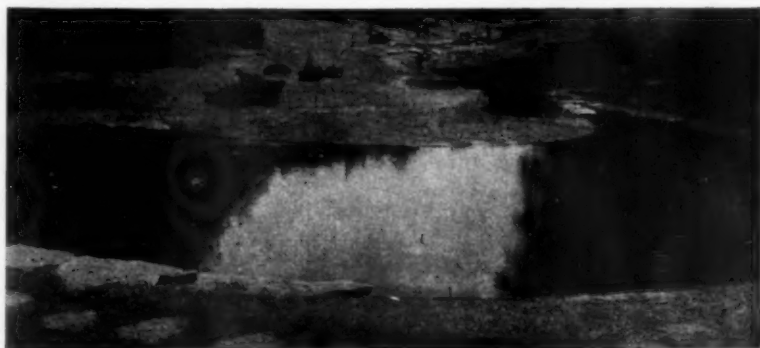
#### BLUE CAMPANULA.

Campanula Blue Gardenia is a direct cross, the parent plants being *Campanula persicifolia* and *Campanula persicifolia Moerheimii*. Out of approximately 3,700 seedlings from this cross were selected seven new campanulas. After the growing season of another year, the number was reduced to four because of the likeness of some of these seven to the others. *Campanula Blue Gardenia* is the first of this series of campanulas to be offered to the public.

Blue Gardenia, as its name implies, is of gardenia form. The blooms, measuring between two and one-half and three inches across, are a beautiful shade of blue, produced almost the entire length of 30-inch stems, with from five to eight flower spikes on one plant. It makes an excellent cut flower. Its foliage is dark green and leathery.

This variety is easy to grow in the average garden soil with ordinary drainage and is extremely hardy.

This campanula, depending upon the season, starts blooming about the last of June and continues well into the middle of July.



Largest Pond as It Appeared Shortly after Construction.

THE bid of Mecklenburg Nurseries, Inc., Charlotte, N. C., to landscape the Fairview Homes housing project at Charlotte has been approved by the United States Housing Authority.

# Deciduous Plants for Every Purpose

*Lists According to Growth Characteristics, Culture and Uses of Selected Plants Included in "Compiling a New Nursery List" Continued from Preceding Issue—By L. C. Chadwick*

## II. GROUND COVERS, SHRUBS AND SMALL TREES (GROUPS 2-6)

### D. USE—Continued

#### (9) Plants for light, sandy soils

##### Group 3

*Amorpha canescens*  
*Ceanothus americanus*  
*Ceanothus pallidus rosea*  
*Cytisus scoparius*  
*Lonicera spinosa* Alberti  
*Potentilla fruticosa*  
*Symphoricarpos Chenaultii*

##### Group 4

*Caragana Maximowicziana*  
*Diervilla sessilifolia*  
*Hypericum prolificum*  
*Rhus canadensis*  
*Rosa lucida*  
*Symphoricarpos vulgaris*

##### Group 5

*Acanthopanax pentaphylla*  
*Caragana microphylla*  
*Cornus paniculata*  
*Cornus sanguinea*  
*Lonicera Morrowi*  
*Prunus pumila*  
*Rhodotypos kerrioides*  
*Robinia Hartwegii*

##### Group 6

*Caragana arborescens*  
*Cornus mas*  
*Ligustrum vulgare*  
*Lonicera Maackii podocarpa*  
*Rhamnus Frangula*  
*Shepherdia argentea*  
*Viburnum dentatum*  
*Viburnum Lantana*

#### (10) Plants for wet soil

##### Group 4

*Calycanthus floridus*  
*Cephalanthus occidentalis*  
*Diervilla sessilifolia*  
*Itea virginica*

##### Group 5

*Aronia arbutifolia* brilliantissima  
*Aronia melanocarpa* elata  
*Clethra alnifolia* Michauxi  
*Cornus alba* sibirica  
*Cornus paniculata*  
*Cornus sanguinea*  
*Ilex verticillata*  
*Viburnum cassinoides*  
*Viburnum dentatum*  
*Viburnum venosum* Canbyi

##### Group 6

*Aesculus parviflora*  
*Benzoin æstivale*  
*Evonymus americanus*  
*Ligustrum vulgare*  
*Magnolia glauca*  
*Salix discolor*  
*Salix incana*  
*Vaccinium corymbosum*  
*Viburnum americanum*  
*Viburnum Lentago*

#### (11) Plants requiring or preferring a neutral to alkaline soil

##### Group 2

*Hypericum Buckleii*

##### Group 3

*Amorpha canescens*  
*Cytisus scoparius*  
*Deutzia gracilis*  
*Hypericum patulum* Henryi  
*Indigofera Kirilowii*  
*Symphoricarpos Chenaultii*

##### Group 4

*Hypericum prolificum*  
*Philadelphus Lemoinei* Avalanche  
*Symphoricarpos racemosus lævigatus*

##### Group 5

*Deutzia Lemoinei* Boule de Neige  
*Kolkwitzia amabilis*  
*Lonicera tatarica* rosea  
*Philadelphus virginialis* Argentine  
*Robinia Hartwegii*

##### Group 6

*Cercis canadensis*  
*Holodiscus discolor*  
*Kœlreuteria paniculata*  
*Laburnum Vossii*  
*Syringa* (all species)

#### (12) Plants requiring or preferring an acid soil

##### Group 2

*Vaccinium pennsylvanicum*

##### Group 3

*Vaccinium vacillans*

##### Group 4

*Azalea Kaempferi*  
*Azalea mollis*  
*Azalea* (others)

##### Group 5

*Azaleas*  
*Enkianthus subsessilis*  
*Ilex verticillata*  
*Rhododendron mucronulatum*

##### Group 6

*Chionanthus virginica*  
*Cornus florida*  
*Cornus florida* rubra  
*Gordonia alata*amaha  
*Symplocos paniculata*

#### (13) Plants adapted for seaside planting

##### Group 2

*Lonicera japonica* Halliana  
*Zanthorhiza apiifolia*

##### Group 3

*Cytisus scoparius*  
*Symphoricarpos Chenaultii*

##### Group 4

*Hydrangea quercifolia*  
*Itea virginica*  
*Shepherdia canadensis*  
*Symphoricarpos vulgaris*

##### Group 5

*Cornus paniculata*  
*Cornus sanguinea*  
*Ligustrum Ibotia* Regelianum  
*Lonicera Morrowi*  
*Myrica carolinensis*  
*Prunus pumila*  
*Prunus maritima*  
*Rhodotypos kerrioides*

##### Group 6

*Acer Ginnala*  
*Baccharis halimifolia*  
*Hippophaë rhamnoides*  
*Viburnum dentatum*  
*Viburnum Lentago*

#### (14) Plants adapted to congested city conditions

##### Group 2

*Lonicera japonica* Halliana

##### Group 3

*Lonicera spinosa* Alberti  
*Physocarpus monogynus*  
*Symphoricarpos Chenaultii*

##### Group 4

*Caragana Maximowicziana*  
*Diervilla sessilifolia*  
*Ribes alpinum*  
*Symphoricarpos vulgaris*  
*Viburnum Carlesii*

##### Group 5

*Acanthopanax pentaphylla*  
*Cornus paniculata*  
*Cornus sanguinea*  
*Forsythia intermedia* spectabilis  
*Ligustrum Ibotia* Regelianum  
*Lonicera fragrantissima*  
*Lonicera Korolkowii*  
*Rhodotypos kerrioides*  
*Viburnum dilatatum*  
*Viburnum tomentosum*  
*Viburnum venosum* Canbyi

##### Group 6

*Caragana arborescens*  
*Cornus mas*  
*Crataegus cordata*  
*Evonymus europæus*  
*Evonymus yedoensis*  
*Hibiscus syriacus*  
*Ligustrum vulgare*  
*Rhamnus Chadwicki*  
*Syringa chinensis*  
*Syringa vulgaris*  
*Viburnum americanum*  
*Viburnum Lantana*  
*Viburnum rufidulum*  
*Viburnum Sieboldii*

#### (15) Plants for growing in tubs

##### Group 3

*Berberis Thunbergii* compacta  
*Berberis plurifolia* erecta  
*Cotoneaster adpressa*  
*Viburnum Opulus* nanum

##### Group 4

*Abelia grandiflora*  
*Cotoneaster apiculata*  
*Ribes alpinum*

##### Group 6

*Ligustrum Ibolium*

#### (16) Striking twig characters

##### (a) Thorny

*Acanthopanax pentaphylla*  
*Berberis Thunbergii* compacta  
*Crataegus coccinea*  
*Crataegus cordata*  
*Crataegus Oxyacantha* Paulii  
*Cydonia Maulei* superba  
*Malus Sargentii*  
*Prinsepia sinensis*  
*Rhamnus Chadwicki*  
*Rosa lucida*

##### (b) Twigs corky

*Evonymus alatus*

##### (c) Effective color

##### Group 2

*Vaccinium pennsylvanicum*—green



## Group 3

*Cytisus scoparius*—green  
*Zenobia pulverulenta*—gray

## Group 4

*Abelia grandiflora*—red  
*Hydrangea quercifolia*—brown  
*Itea virginica*—green  
*Kerria japonica*—green  
*Rosa lucida*—red  
*Shepherdia canadensis*—silvery

## Group 5

*Cornus alba sibirica*—red  
*Cornus stolonifera flaviramea*—yellow  
*Cornus sanguinea*—red  
*Cornus sanguinea viridissima*—green  
*Forsythia intermedia spectabilis*—yellow  
*Forsythia viridissima*—green  
*Lonicera Korolkowii*—bluish-gray  
*Rosa rubrifolia*—red

## Group 6

*Acer pennsylvanicum*—green, striped white  
*Evonymus atropurpurea*—green  
*Evonymus europaeus*—green  
*Evonymus yedoensis*—reddish-green

## (d) Twigs scanty

## Group 2

*Evonymus obovatus*  
*Zanthorhiza apiifolia*

## Group 3

*Amorpha canescens*  
*Ceanothus americanus*

## Group 4

*Callicarpa purpurea*  
*Hypericum prolificum*  
*Rhus canadensis*  
*Symphoricarpos racemosus laevigatus*  
*Viburnum Burkwoodii*

## Group 5

*Cornus alba sibirica*  
*Cornus stolonifera flaviramea*  
*Cotoneaster hupehensis*  
*Philadelphus virginialis* Argentine  
*Vitex macrophylla*

## Group 6

*Chionanthus virginica*  
*Malus thieifera*

## (e) Twigs profuse

## Group 2

*Evonymus nanus*  
*Hypericum Buckleii*  
*Vaccinium pennsylvanicum*

## Group 3

*Berberis Thunbergii* compacta  
*Viburnum Opulus nanum*

## Group 4

*Abelia grandiflora*  
*Cotoneaster apiculata*  
*Lonicera thibetica*  
*Spiraea arguta*

## Group 5

*Cornus paniculata*  
*Cornus sanguinea*  
*Evonymus alatus compactus*  
*Kolkwitzia amabilis*  
*Lonicera fragrantissima*  
*Lonicera Korolkowii*  
*Viburnum cassinoides*  
*Viburnum tomentosum*

## Group 6

*Acer palmatum Ashi-Beni*  
*Cornus mas*  
*Crataegus cordata*  
*Symplocos paniculata*  
*Syringa chinensis*  
*Viburnum rufidulum*

## (17) Important leaf characters

## (a) Size and form

## (I) Compound or cut-leaf

## Group 2

*Rosa Max Graf*  
*Rosa Wichuraiana*  
*Rubus hispidus*  
*Zanthorhiza apiifolia*

## Group 3

*Amorpha canescens*  
*Cytisus scoparius*  
*Indigofera Kirilowii*  
*Potentilla fruticosa*  
*Potentilla fruticosa Veitchii*

## Group 4

*Caragana Maximowicziana*  
*Comptonia asplenifolia*  
*Rhus canadensis*  
*Rosa lucida*

## Group 5

*Acanthopanax pentaphylla*  
*Rosa multiflora*  
*Vitex macrophylla*

## Group 6

*Acer palmatum Ashi-Beni*  
*Acer palmatum multifidum*  
*Aesculus parviflora*  
*Albizia Julibrissin rosea*  
*Caragana arborescens*  
*Koeleruteria paniculata*  
*Laburnum Vossii*  
*Rhamnus Frangula asplenifolia*  
*Rhus typhina laciniata*  
*Staphylea colchica*

## (II) Small

## Group 2

*Cotoneaster himalayacus*  
*Evonymus nanus*  
*Hypericum Buckleii*

## Group 3

*Berberis Thunbergii* compacta  
*Cotoneaster adpressa*  
*Cotoneaster praecox*  
*Hypericum Kalmianum*  
*Lonicera spinosa Alberti*  
*Symphoricarpos Chenaultii*  
*Vaccinium vacillans*

## Group 4

*Abelia grandiflora*  
*Azalea Kaempferi*  
*Cotoneaster apiculata*  
*Lonicera thibetica*  
*Spiraea arguta*

## Group 5

*Cotoneaster Dielsiana*  
*Cotoneaster hupehensis*  
*Lonicera syringantha Wolfii*  
*Rhododendron mucronulatum*

## Group 6

*Cotoneaster foveolata*  
*Ligustrum vulgare*  
*Symplocos paniculata*

## (III) Large

## Group 4

*Calycanthus floridus*  
*Hydrangea quercifolia*

## Group 5

*Viburnum venosum Canbyi*

## Group 6

*Chionanthus virginica*  
*Clerodendron trichotomum*  
*Corylus maxima purpurea*  
*Evonymus Maackii*  
*Evonymus planipes*  
*Evonymus yedoensis*  
*Gordonia alataamaha*  
*Hamamelis mollis*  
*Hamamelis virginiana*

*Magnolia Soulangeana* Lennei  
*Rhamnus Chadwicki*  
*Syringa japonica*  
*Syringa Josikaea*  
*Viburnum americanum*  
*Viburnum Lantana*  
*Viburnum Lentago*  
*Viburnum Sieboldii*

## (b) Fragrant or outstanding odor

## Group 4

*Calycanthus floridus*  
*Caryopteris tangutica*  
*Rhus canadensis*

## Group 5

*Myrica carolinensis*  
*Vitex macrophylla*  
*Vitex Negundo incisa*

## Group 6

*Benzoin aestivale*  
*Clerodendron trichotomum*  
*Viburnum Sieboldii*

## (c) Length of effectiveness

## (I) Appear early—late March or mid-April

## Group 2

*Cotoneaster himalayacus*  
*Lonicera japonica Halliana*

## Group 3

*Berberis Thunbergii* compacta  
*Cotoneaster adpressa*  
*Cotoneaster praecox*  
*Deutzia carnea*  
*Deutzia gracilis*

## Group 4

*Cotoneaster apiculata*  
*Lonicera thibetica*  
*Ribes alpinum*  
*Viburnum Carlesii*

## Group 5

*Cotoneaster Dielsiana*  
*Cotoneaster hupehensis*  
*Cotoneaster racemiflora soongarica*  
*Deutzia Lemoinei* Boule de Neige  
*Kolkwitzia amabilis*  
*Ligustrum Iboia Regelianum*  
*Lonicera Korolkowii*  
*Lonicera Morrowi*  
*Rhodotypos kerrioides*  
*Viburnum tomentosum*

## Group 6

*Acer Ginnala*  
*Cotoneaster foveolata*  
*Ligustrum vulgare*  
*Lonicera Maackii podocarpa*  
*Syringa chinensis*  
*Syringa vulgaris*  
*Viburnum Lantana*  
*Viburnum Sieboldii*

## (II) Appear late—after mid-May

## Group 3

*Amorpha canescens*  
*Ceanothus pallidus rosea*  
*Indigofera Kirilowii*

## Group 4

*Callicarpa purpurea*  
*Calycanthus floridus*  
*Cephalanthus occidentalis*  
*Rhus canadensis*

## Group 5

*Callicarpa Giraldeana*  
*Clethra alnifolia Michauxii*  
*Myrica carolinensis*  
*Vitex macrophylla*

## Group 6

*Benzoin aestivale*  
*Cercis canadensis*  
*Chionanthus virginica*  
*Hibiscus syriacus*  
*Oxydendron arboreum*  
*Rhus copallina*  
*Rhus typhina*  
*Shepherdia argentea*

# D. USE (17) Important leaf characters

## —Continued

### (III) Drop early—by mid-October

#### Group 3

*Amorpha canescens*

#### Group 4

*Callicarpa purpurea*  
*Hypericum prolificum*  
*Philadelphus Lemoinei* Avalanche  
*Symphoricarpos racemosus* laevigatus

#### Group 5

*Callicarpa Girdiana*  
*Evonymus alatus*  
*Vitex macrophylla*

#### Group 6

*Acer Ginnala*  
*Æsculus parviflora*  
*Benzoin æstivale*  
*Caragana arborescens*  
*Cercis canadensis*  
*Chionanthus virginica*  
*Cornus florida*  
*Crataegus cordata*  
*Evonymus yedoensis*  
*Hibiscus syriacus*  
*Koeleruteria paniculata*  
*Staphylea pinnata*  
*Syringa japonica*  
*Syringa Josikaea*  
*Syringa vulgaris*  
*Viburnum Lentago*  
*Viburnum prunifolium*

### (IV) Drop late (still good Nov. 15 and later)

#### Group 2

*Evonymus nanus*  
*Hypericum Buckleii*  
*Lonicera japonica* Halliana  
*Rosa Wichuraiana*

#### Group 3

*Cotoneaster adpressa*  
*Cytisus scoparius*  
*Hypericum patulum* Henryi  
*Spiraea Bumalda* Anthony Waterer  
*Symphoricarpos Chenaultii*  
*Viburnum Opulus nanum*

#### Group 4

*Abelia grandiflora*  
*Azalea Kaempferi*  
*Caragana Maximowicziana*  
*Cotoneaster apiculata*  
*Diervilla sessilifolia*  
*Hydrangea quercifolia*  
*Lonicera thibetica*  
*Prinsepia sinensis*  
*Rhus canadensis*  
*Ribes alpinum*  
*Rosa lucida*  
*Spiraea arguta*  
*Symphoricarpos vulgaris*  
*Viburnum Burkwoodii*

#### Group 5

*Cornus sanguinea*  
*Cotoneaster Dielsiana*  
*Cotoneaster hupehensis*  
*Cotoneaster racemiflora* soongarica  
*Forsythia intermedia* spectabilis  
*Hamamelis vernalis*  
*Ligustrum Ibotia* Regelianum  
*Lonicera fragrantissima*  
*Lonicera Standishii*  
*Lonicera syringantha* Wolfii  
*Myrica carolinensis*  
*Rhododendron mucronulatum*  
*Rhodotypos kerrioides*  
*Viburnum cassinoides*  
*Viburnum dilatatum*  
*Viburnum tomentosum*

*Viburnum tomentosum* plicatum  
*Viburnum venosum* Canbyi  
*Viburnum Wrightii*

#### Group 6

*Acer palmatum* Ashi-Beni  
*Cornus mas*  
*Cotoneaster foveolata*  
*Evonymus europæus*  
*Fontanesia Fortunei*  
*Laburnum Vossii*  
*Ligustrum amurense*  
*Ligustrum Ibolium*  
*Lonicera Maackii* podocarpa  
*Rhamnus Chadwickii*  
*Symplocos paniculata*  
*Viburnum americanum*  
*Viburnum Lantana*  
*Viburnum macrocephalum* sterile  
*Viburnum rufidulum*  
*Viburnum Sieboldii*

(d) Color (g = glossy; d = dark or dull green; l = light green; gr = grayish)

### (I) Natural

#### Group 2

*Cotoneaster himalayacus*—g  
*Evonymus nanus*—g  
*Evonymus obovatus*—l  
*Hypericum Buckleii*—l  
*Lonicera japonica* Halliana—d  
*Rosa Max Graf*—d  
*Rosa Wichuraiana*—g  
*Rubus hispidus*—d  
*Vaccinium pennsylvanicum*—g  
*Zanthorhiza apiifolia*—l

#### Group 3

*Amorpha canescens*—gr  
*Berberis Thunbergii* compacta—d  
*Ceanothus pallidus* rosea—l  
*Cotoneaster adpressa*—g  
*Cotoneaster præcox*—g  
*Cydonia Maulei* superba—d  
*Cytisus scoparius*—g  
*Deutzia carnea*—gr  
*Deutzia gracilis*—d  
*Hypericum Kalmianum*—bluish  
*Hypericum patulum* Henryi—d  
*Indigofera Kirilowii*—g  
*Lonicera spinosa* Alberti—bluish  
*Physocarpus monogynus*—l  
*Potentilla fruticosa*—l

#### Group 4

*Abelia grandiflora*—g  
*Azalea Kaempferi*—d  
*Azalea mollis*—l  
*Callicarpa purpurea*—l  
*Caragana Maximowicziana*—d  
*Cotoneaster apiculata*—g  
*Diervilla sessilifolia*—g  
*Hydrangea quercifolia*—d  
*Hypericum prolificum*—l  
*Lonicera thibetica*—g (white below)  
*Philadelphus Lemoinei* Avalanche—d  
*Rhus canadensis*—d  
*Ribes alpinum*—d  
*Rosa lucida*—g  
*Spiraea arguta*—l  
*Spiraea Bumalda* Froebeli—d  
*Spiraea Reevesiana*—bluish  
*Symphoricarpos racemosus* laevigatus—g  
*Viburnum Burkwoodii*—g  
*Viburnum Carlesii*—gr

#### Group 5

*Acanthopanax pentaphyllum*—l  
*Aronia arbutifolia* brilliantissima—g  
*Aronia melanocarpa* elata—g  
*Berberis Thunbergii* atropurpurea—red  
*Cornus alba* Gouchaultii—variegated yellow-white-pink  
*Cornus alba* sibirica—d  
*Cornus alba* Spaethii—broadly edged with white-yellow

*Cornus paniculata*—d  
*Cornus sanguinea*—g  
*Cotoneaster Dielsiana*—g  
*Cotoneaster hupehensis*—d  
*Cotoneaster racemiflora* soongarica—gr  
*Cydonia japonica*—d  
*Deutzia Lemoinei* Boule de Neige—l  
*Evonymus alatus*—l  
*Forsythia intermedia* spectabilis—l  
*Hamamelis vernalis*—l  
*Kolkwitzia amabilis*—d  
*Ligustrum Ibotia* Regelianum—d  
*Lonicera fragrantissima*—g  
*Lonicera Korolkowii*—blue  
*Lonicera Morrowi*—d-g bluish  
*Malus Sargentii*—d  
*Philadelphus coronarius* aureus—yellow  
*Philadelphus virginialis* Argentine—l  
*Prunus tomentosa*—d  
*Rhododendron mucronulatum*—d  
*Rhodotypos kerrioides*—l  
*Rosa rubrifolia*—purple  
*Sambucus canadensis* aurea—yellow  
*Viburnum cassinoides*—g  
*Viburnum dilatatum*—d  
*Viburnum tomentosum*—d  
*Viburnum venosum* Canbyi—g  
*Viburnum Wrightii*—d  
*Vitex macrophylla*—gr  
*Weigela rosea* variegata—white

#### Group 6

*Acer Ginnala*—d  
*Acer palmatum* Ashi-Beni—red  
*Acer palmatum* atropurpurea—purple  
*Acer palmatum* versicolor—white  
*Amelanchier grandiflora* rubescens—g  
*Caragana arborescens*—d  
*Cercis canadensis*—d  
*Chionanthus virginica*—d  
*Cornus florida*—d  
*Cornus florida* rubra—d  
*Cornus mas*—g  
*Cornus mas* elegantissima — variegated creamy-white and tinged with red  
*Corylus maxima* purpurea—purple  
*Cotoneaster foveolata*—g  
*Crataegus coccinea*—g  
*Crataegus cordata*—d  
*Crataegus Oxyacantha* Paulii—d  
*Elæagnus angustifolia*—gr  
*Evonymus europæus*—d  
*Evonymus Maackii*—d  
*Evonymus planipes*—d  
*Evonymus yedoensis*—d  
*Exochorda Girdalii* Wilsonii—d  
*Gordonia alata* maha—g  
*Hibiscus syriacus*—d  
*Koeleruteria paniculata*—d  
*Laburnum Vossii*—gr  
*Ligustrum amurense*—l  
*Ligustrum Ibolium*—g  
*Ligustrum vulgare*—g  
*Ligustrum vulgare* aureovariegatum — yellow-low  
*Lonicera Maackii* podocarpa—l  
*Magnolia Soulangeana* Lennei—d  
*Magnolia stellata* rosea—d  
*Malus Arnoldiana*—d  
*Malus atrosanguinea*—d  
*Malus Halliana* Parkmanii—d  
*Malus purpurea* Eleyi—purplish  
*Malus theifera*—g  
*Prunus Newportii*—purple-red  
*Rhamnus Chadwickii*—g  
*Salix incana*—gr  
*Stewartia pentagyna* grandiflora—d  
*Syringa chinensis*—d  
*Syringa Henryi* Lutèce—g  
*Syringa japonica*—d  
*Syringa vulgaris*—d  
*Viburnum americanum*—d  
*Viburnum Lantana*—d  
*Viburnum macrocephalum* sterile—d  
*Viburnum prunifolium*—d  
*Viburnum rufidulum*—g  
*Viburnum Sieboldii*—l

[Continued in next issue.]



# Charlie Chestnut



## FOUL BALL

"I've been robbed", Emil sputtered out as he busted into the office. "Right in the day time too."

I aint never seen Emil so agitated in my life. He looked like he had been left out in a cyclone or something.

He was too excited for me to find out what was missing, so I kept right on cleaning out the ashes in the office stove, which was there from last spring, until he calmed down a little.

"My pocket book and that signed order from Mrs. Frisby is both gone." As he spoke he patted the inside coat pocket where a little while before was his bill fold and that order.

"What did you have in your pocket book," I says, "besides your lodge cards."

"There was over \$8.00 and some change and that order from Mrs. Frisby. You know old lady Frisby. Ill have trouble with her. I always have. Generally I have to threaten to get a lawyer and then we always have to go over the order. She'll never pay up without I take the order to a lawyer. She is good for it, but she's so damned ornary she always puts up a lot of arguing. I wont be in no shape to argue without a signed order. If I go back she will not sign another order. That was a \$400.00 order. Am I in a mess now. I knew the minute it was gone too. A fellow fell against me when I was in a saloon in Lake Park."

"Oh, now it comes out," I says. "You was in a saloon. No wonder," I says. "I remember the time at the convention when you went to sleep out in the hall, when you couldnt find your key, and John Elderberry took your pocketbook just for a joke. Probably somebody will bring it over to you after they give you a little time to worry about it. Probably it will turn up," I says.

"Turn up!" he shouts. "I tell you I was robbed pure and simple. I went into the saloon to telephone."

"You could have gone into a filling station and you wouldnt of got into no trouble," I says. "But what happened then," I says.

"After I telephoned I was a little dry and I ordered a beer. There was a lot of men there. It was in the

noon hour and there was a lot of men from the stove works had dropped in for a beer or two. Right by the door there was a fellow reading a newspaper. He was just the kind of a pick-pocket you would suspect too. As I was going out he was walking toward the door reading his paper and almost knocked me down, I felt him sort of push me. When I got out on the highway I felt in my pocket like I always do to see if my pocketbook is there and by george it wasn't there. I got out of the car and looked in all my pockets and in the car. I remember putting that order in my pocketbook and putting it in my inside pocket like I always do. I turned right around and went back to the saloon. It was empty of people and a new



I got out of the car and looked in all my pockets.

bartender was working. I told him what happened and he didnt seem impressed. Finally he says, "Alright bo, Ill give you one beer on the house and then you beat it before I decide to throw you out. The boss dont like bums hanging around the place. It gives the place a bad name."

"I was mad as hell but I didn't see no use to pass up a free beer. I went out of there and went the rounds of all the saloons in Lake Park, but I didnt see no sign of the gent with the newspaper."

"Maybe he finished reading the paper and threw it away," I says. "You didnt expect to see him reading the paper all the afternoon did you?"

"He was a short guy with a little mustasch. He had a straw hat." Emil was partly talking to himself trying to remember what the gent looked like. "Seems like he had on a blue suit without no vest."

"How would anybody get his hand into your inside pocket," I says, "in daylight with a lot of people around."

"It was on account of that newspaper. When he fell on me he must of put his hand under the paper or something. All he says was, pardon me, and he went out the door. Lets see now, what was on that order for Mrs. Frisby. We will have to sit down and see if we can remember what stuff was on that order."

"Dont ask me what was on it," I says. "You changed it all around a dozen times and furthermore you knocked off \$80.00 on it. What was the idea of that?" I says.

"Well, the F. and M. had rung in a lot of there honeysuckle at a cheap price and they was a hundred dollars under me. I done good to get the order at all even for \$400.00. In fact I had to guarantee for two years and throw in the planting for nothing."

"Seems to me like its good that you lost the order if thats the way it turned out," I says.

"Hang it," he says, "I aint got any recollection of what the items was on that order. Lets see, there was them 8 Silver maples for on the street. 8 maples," he says, "write that down."

"How much," I says, "and what size?"

"Lets see, they was about 3 inch at 75c each," Emil says.

"75 cents?" I says. "You was raising cain with me when I got a dollar thirty five for them I sold to Mrs. Brewster. 75c, you sure bent over on that."

"Jake was putting them in for 75c so I had to do it," Emil says.

"So far thats \$3.00. What was the other \$397.00 for?" I says.

"No, by gosh that gent didnt have a straw hat. He had a cap. Most pickpockets has caps. All that I ever seen pictures of had caps and generally sweaters."

"Are you sure he had on a shirt and not no sweater?" I says.

"What would a guy want with a sweater in the summer time?" Emil says. "Have you forgotten this is August and the temperature is 95?" Emil says.

"Then there was a hedge of barberry by the side. I figured 40 barberry about 24 inch at 20 cents, thats \$8.00," says Emil.

"20c did you say? Thot we made the price 30 cents," I says.

"I figured to pick out some small



ones for 20c. Mrs. Frisby told me she bought some from a dept. store for ten cents, so she wouldn't go over 20 cents. I figured to add it on to something else and make up for the difference. You have got to give and take quite a lot on a landscape job, you have got to make up on some items what you lose on some of the others." Emil says.

"All right," I says, "so far you got \$11.00. \$389.00 to go, and then we have got it," I says.

"Dam that guy anyway," says Emil, "I could have caught him if I had been quick enough. He must of worked fast as I wasn't gone more than 15 minutes when I missed that pocketbook."

"Are you sure you didn't leave that pocketbook in the phone booth?" I says.

"Hell no, I remember putting it in my pocket," Emil says.

Just then I had to go out and help unload some chicken feed which they sent up from the feed mill. When I come back Emil was on the phone so I went over to the greenhouse to get a drink. When I come back again, I heard Emil say, "Did you look on the floor and on that little shelf?" I didn't say nothing, but I could see that Emil wasn't so positive in his memory like he said.

"Now what else was on that order?" I says. "You only got \$11.00 so far."

"I figured on 12 Norway spruce for across the back end of the lot. That's where I made up a little. I figured them one sided ones at half price. I put in 15 for \$20.00," Emil says.

"What do you mean one sided?" I said. "They are all one sided and that's why we put a price of \$2.00 each. A low price to move them out and now you go to work and sell 15 for \$20.00 and plant besides. If that was me selling that job you could let out a howl on that item," I says.

"I wonder if I went back to the stove works and stood by the door if I could spot that gent when he comes out of work," Emil says.

"You don't even know if he works in the stove works or not," I says. Probably he is a professional crook if he can get into inside pockets so easy. You better forget the whole thing and don't get caught in a saloon and watch out for guys with newspapers hereafter."

"Didn't you figger in some of them lombardys on that job?" I says.

"Yes, that's right. No, wait a minute. I had them in and then I took them out. She didn't want lombardys. She wanted Chinese elm, I figured to buy some from John Bushbottom. I only need 4. I just figured to break even on that. I sold for 75c each. I can pick 'em up for 50 or 75 cents," Emil says.

"John told me at the convention that Chinese Elms is going up. You won't get that for under a dollar," I says.

"There's only 4 and that won't make no difference," Emil says.

"I got a good notion to go over to Lake Park and stay there for a day or



I made a pass for his inside coat pocket.

so and scout around a little. Maybe you better go too," he says to me.

"You wouldn't even know the gent if you seen him so how would I tell him and furthermore what would you say to him if you seen him," I says. "He could say he never seen you before and he could have you arrested for something. Probably he would sue you for defamation of character and then you would be worse off than you are now."

"If I could catch him I wouldn't argue, I would just lay into him and search him and let it go at that," says Emil.

"Let's forget the whole thing and get

on with this order. You sure you ain't got a copy of the order anyplace?" I says.

"There was only one copy and that is the one which was stole. I figured it was just as well not to leave a copy with Mrs. Frisby as she would start to change it all around again," Emil says.

"Why not put a ad in the Lake Park paper asking for the return of a certain paper which was lost and no questions asked," I says. "That order wouldn't do no good for that pick-pocket. Maybe he ain't a bad sort of a gent and he would send it back to you if you would run a ad."

We took time out and made up the ad. "Better call the paper by phone and get it in tonight," I says.

We called up but they wouldn't run the ad on account of Emil hadn't paid for the ads he run last spring when he opened the salesyard. So that was the end of that idea.

Just then Mrs. Frisby called up. I told her Emil wasn't there. She says Emil should bring the order over in the morning because she didn't remember if Emil put in them two cherry trees or if she said to leave them out. I told her I would have Emil come over, but he was out of town for a week or so. I figured that would give us a few days to get the order made up.

With that Emil was off again. "It seems to me that gent had glasses and—"

"Half of the people wears glasses, so that cuts down 1/2 on all the suspects," I says. "Probably we could check all the men with glasses in Lake Park, but we couldn't do it under a week." I was getting a little tired of the whole thing, so I thought I would



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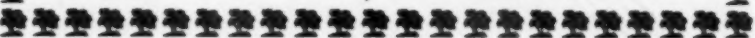
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<i>Acer palmatum</i> Ashi-Boni	\$3.50	\$30.00
<i>palmatum atropurpureum</i>	3.00	25.00
<i>dissectum atropurpureum</i>	3.00	25.00
<i>Cedrus atlantica</i> glauca	4.00	35.00
<i>Chamaecyparis obtusa</i> gracilis nana		
<i>compacta</i>	3.00	25.00
<i>Cornus Florida</i> alba plena	3.00	25.00
<i>Florida</i> pendula	3.00	25.00
<i>Berida</i> rubra	3.00	25.00
<i>Berida</i> Weibull	3.00	25.00
<i>Fagus sylvatica</i> pendula	3.00	25.00
<i>sylvatica</i> Riversii	3.00	25.00
<i>sylvatica</i> tricolor	3.75	35.00
<i>Ilex opaca</i> femina	2.75	25.00
<i>opaca</i> Howardii	2.75	25.00
<i>Juniperus communis</i> glauca	2.75	25.00
<i>columnaris</i> viridis	2.75	25.00
<i>chinensis</i> neobarbensis	2.75	25.00
<i>chinensis</i> Sargentii	2.75	25.00
<i>chinensis</i> Sargentii glauca	2.75	25.00
<i>oculorum</i> glauca	2.75	25.00
<i>squamata</i>	2.75	25.00
<i>squamata</i> argentea variegata	2.75	25.00
<i>squamata</i> Meyer	2.75	25.00
<i>virginiana</i> Burki	2.75	25.00
<i>virginiana</i> Cantrill	2.75	25.00
<i>virginiana</i> elegantissima	2.75	25.00
<i>virginiana</i> glauca	2.75	25.00
<i>virginiana</i> glauca	2.75	25.00
<i>virginiana</i> Keteleeri	2.75	25.00
<i>virginiana</i> Schottii	2.75	25.00
<i>virginiana</i> pendula	2.75	25.00
<i>virginiana</i> pyramidiformis	2.75	25.00
<i>Magnolia Alexandrina</i>	3.25	30.00
<i>Halliana</i> stellata	3.25	30.00
<i>Lemoii</i>	3.75	35.00
<i>Soulangiana</i>	3.25	30.00
<i>Soulangiana</i> nigra	3.25	30.00
<i>Thuja occidentalis</i> Douglasii spiralis	2.25	20.00
<i>occidentalis</i> elegantissima	2.25	20.00
<i>occidentalis</i> lutea Geo. Peabody	2.25	20.00
<i>occidentalis</i> lutea B. & A. Type	2.25	20.00
<i>occidentalis</i> nigra	2.25	20.00
<i>occidentalis</i> Rosenthalii	2.25	20.00
<i>occidentalis</i> Warana (sibirica)	2.25	20.00
<i>orientalis</i> aurea nana	2.00	18.00
<i>orientalis</i> ovata	2.00	18.00
<i>orientalis</i> elegantissima	2.00	18.00
<i>Tsuga canadensis</i> Sargentii	2.75	25.00

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shut him up if I could. But it wasn't no use.

"Maybe that bartender which was on duty would remember him if I was to go over and describe the man to him," Emil says.

"Do you realize you got to see Mrs. Frisby the first of the week and we have only got \$42.00 of that \$400.00 figgered down yet and I'll bet that part aint really the way you put it in at, at that," I says.

Emil let out a curse and scratched his beard. He was gazing out the window looking out into the nursery. "Maybe if I was to take a walk thru the nursery I could see the stuff and remember what I put in."

"That wouldnt get you anything," I says, "you cant see the stuff on account of the weeds." But Emil didnt have no answer for that. He just walked out the back door and the last I seen of him he was walking around in back of the barn heading for the far end of the nursery.

Emil was never good at remembering things, so it didnt surprise me that he didnt have no more idea than the man in the moon what it was that figgered up to \$400.00.

He was back in half an hour, with a lot of notes on the back of his check book.

"How did you make out?" I says.

"Theres a lot of red spider on them spruces," he says, "we got to get out there and spray some of these days. Dont forget we got to take some cuttings off them mock orange. I figger we might make up 5 or 10 thousand and sell them wholesale at the convention."

"How about the order for Mrs. Frisby?" I says. "What did you remember?"

"Its seems like we put in a lot of Mock oranges for around the garage. I can tell how many when I take a look at the garage again. It seems like it was a dozen at least," Emil says.

"Well, how much, and how many?" I says. "We have got to get it down and add it up or you are going to be in a bad way when Mrs. Frisby asks you to see that list."

Emil didnt say nothing. He just sat there and looked straight ahead at the windmill. Pretty soon he stood up and handed me a newspaper. "Here," he says, "you stand there by the door and open the newspaper like you was reading. I will start for the door and you see if you can get your hand into my inside pocket.

WHY THERE ARE

3

HORMODIN POWDERS

Experienced nurserymen who propagate everything from chrysanthemums to evergreens, realize that no single-strength root-inducing powder can propagate efficiently over so broad a range.

That is why *Hormodin Powder* has been made available in these three strengths to parallel the range of hormones in nature:

### HORMODIN POWDER NO. 1

The general purpose powder—designed to root carnations, roses, and many other house, garden, and greenhouse plants.

### HORMODIN POWDER NO. 2

For propagating many of the woody and semi-woody types.

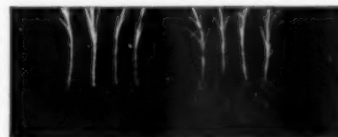
### HORMODIN POWDER NO. 3

For propagating many of the evergreens and dormant leafless cuttings.



The treatment is simple. The moistened stems are dipped into *Hormodin Powder* (tap gently to remove excess powder), then placed in the usual propagating medium.

The cost is small. For example: the one pound tin of *Hormodin Powder* No. 1 costs only \$3.00. It is estimated that each ounce will treat about 2500 cuttings of average size. Complete plant list for each of the three *Hormodin Powders* with each package.



NOT TREATED TREATED

This illustration graphically demonstrates the increased root growth of Carnation cuttings treated with *Hormodin Powder* as compared to cuttings not treated with this product.

Be sure to ask your dealer for

**HORMODIN POWDER**

Booklet on request

MERCK & CO. INC. - RAHWAY, N. J.

Manufacturing Chemists



It dont seem possible that gent could of got away with it," he says.

"Remember," I says, "I aint no pickpocket by trade, but I will make a try at it."

We got the stage set. I was there with the paper spread out, when in come Emils wife. "Emil," she says, "I have got to have a dollar for some groceries, better give me \$2.00. I might get a bushel of peaches too," she says.

Emil didnt stop, as the play was on. He started toward the door. I made a pass for his inside coat pocket. There was a hole in the pocket and my hand caught in it and we both rolled over on the floor.

"You would never make a living at that kind of work," he says.

As I was trying to get my hand out I felt something down in the lining of the coat. I pulled it out and there was Emils pocket book.

He made a dive for it and pulled out Mrs. Frisbys order. Emils wife stood in the door with her eyes popped out and mouth open.

"You would save me a lot of trouble," he says to his wife, "if you would mend my pockets once in a while."

Then he says to me, "You better call Mrs. Frisby and tell her I changed my plans, tell her I postponed my trip when I heard she wanted to see me. Just say I will be over to see her in the morning."

A CAMPAIGN against bootlegging shrubbery into Montgomery county was started October 14 by Maryland's state's attorney after complaints by nurserymen that violators of the state horticultural and noninspection law were importing plants from North Carolina and Tennessee and selling them from house to house at reduced rates.

EXPORT problems of the apple growers are to be solved by the federal Surplus Commodities Corp. purchasing up to 10,000,000 bushels of the higher market grades for relief use provided the growers undertake the removal of an equal quantity of marketable but substandard fruit from the fresh trade. Commercial production this year is estimated at 103,000,000 bushels, twenty-five per cent in excess of last year's production and seven per cent over the average of the past ten years. The export market has taken about 11,000,000 bushels annually.

## This Business of Ours

*Reflections on the Progress and Problems of the Nurseryman—By Ernest Hemming*

For fifty years a nurseryman—president of the Eastern Shore Nurseries, Inc., Easton, Md.—and for fourteen years editor of the National Nurseryman—from 1912 to 1926—Ernest Hemming has responded to the invitation to contribute here, from his experiences of those many years, observations that might be helpful to the wider circle of readers of the merged publications.

Something happened to me the other day which started me thinking. As a rule we let other people do our thinking for us—and see what a mess the world has got into! That goes for the nursery business, too. Whenever I had to fill out one of those numerous government forms, getting married or anything, where you had to give your name, age and occupation, or when the judge asked it, my chest would expand a little and pride creep into my voice as I would say "nurseryman". I would much rather have said what I wasn't, but it would have taken too long, and you can't take liberties in court.

Just what is a nurseryman? That is what started me thinking, after signing myself one for fifty years or so. Things and events began to raise doubts in my mind. There is only one thing to do when in doubt, consult a dictionary; result: "One who conducts or cultivates a nursery of young trees, shrubs, etc." The etc. explains the whole thing. It is the most important part and I had overlooked it.

Judging from the numerous laws and regulations, both federal and state, that have been passed to govern his conduct, for some states even put the nurseryman under bond, he must be a pretty dangerous fellow to have loose in a democracy. Anyway, the government people don't trust him; so they have nurseries of their own and send inspectors around to keep tabs on the other fellow. We had inspectors for two weeks last summer looking for *Poppillia japonica*. They did not find any, but I know they are in the community because a couple came down

with me in the smoking car and they did not have tickets, either. Suppose they had bummed a ride on one of our trucks! We should have had to hire another girl to keep the files.

In the old days everyone knew the qualifications of a nurseryman, "a weak head and a strong back", but now to meet the requirements of the internal revenue bureau, state tax laws and social security act, he should be a graduate C. P. A.

In reality, the nurseryman is a simple, honest fellow. He has been known to keep chickens, a couple of pigs and a cow and, of course, mules. There have been instances when he has been elected mayor of the nearby city, and right now there is one who was made governor of his state and has even been mentioned as possible presidential timber. "Timber," I believe, is the right word to use, although it is reminiscent of those who destroyed our forests and almost destroyed the country in doing so, by upsetting the balance of nature, an upset responsible for many of our ills, especially the insectivorous ones, usually blamed on the nurseryman, whereas the nurseryman in his small way spends his life growing trees and plants to make

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*Write for Price List*

**LAKE'S SHENANDOAH NURSERIES**

Shenandoah, Iowa



**SHADE TREES**

Ash, American	Per 10	Per 100
10 to 12 ft. ....	\$10.00	\$ 90.00
2 to 2½-in. cal. ....	15.00	140.00
2½ to 3 -in. cal. ....	20.00	185.00
<b>Elm, American</b>		
10 to 12 ft. ....	6.50	60.00
2 to 2½-in. cal. ....	12.50	115.00
2½ to 3 -in. cal. ....	20.00	175.00
<b>Elm, Chinese</b>		
8 to 10 ft. ....	10.00	95.00
10 to 12 ft. ....	12.50	115.00
<b>Flowering Crabs (assorted varieties)</b>		
3 to 4 ft. ....	4.50	40.00
4 to 6 ft. ....	6.00	50.00
<b>Koelreuteria</b>		
5 to 6 ft. ....	10.00	.....
6 to 8 ft. ....	12.50	.....
<b>Maple, Norway</b>		
10 to 12 ft. ....	10.00	90.00
1½ to 2 -in. cal. ....	12.50	115.00
2 to 2½-in. cal. ....	17.50	165.00
2½ to 3 -in. cal. ....	22.50	200.00
3 to 3½-in. cal. ....	30.00	275.00
<b>Mimosa</b>		
6 to 8 ft. ....	10.00	85.00
8 to 10 ft. ....	15.00	125.00
<b>Oak, Pin</b>		
1½ to 2 -in. cal. ....	16.50	150.00
2 to 2½-in. cal. ....	20.00	185.00
2½ to 3 -in. cal. ....	30.00	275.00
<b>Poplar, Lombardy</b>		
5 to 6 ft. ....	1.80	16.00
6 to 8 ft. ....	2.00	18.00
8 to 10 ft. ....	3.00	22.50
10 to 12 ft. ....	4.50	35.00
<b>Specimen Apple Trees</b>		
7 to 8 ft. ....	12.50	100.00
<b>Willow, Weeping</b>		
6 to 8 ft. ....	6.00	50.00
8 to 10 ft. ....	8.50	75.00

**WAYNESBORO NURSERIES, INC.**  
Waynesboro, Virginia

**AMPELOPSIS VEITCHII**

(Boston Ivy)

2-year transplanted	Per 100
2 to 3 ft. ....	\$12.00
18 to 24 ins. ....	10.00
12 to 15 ins. ....	8.00

Cash with order.

**H. A. MEHAFFEY**

Route 1 Painesville, O.

**Juniperus Scopulorum**Seedlings, 6 to 10 ins. \$60.00 per 1000  
Seedlings, 10 to 12 ins. 90.00 per 1000**Malus**Arnoldiana, coronaria, floribunda,  
Matthiwi, Parkmannii, Scheideckeri  
2 to 3 ft. .... \$15.00 per 100**Cotoneaster Divaricata**

Seedlings, 8 to 12 ins. \$40.00 per 1000

**Viburnum Wrightii**Seedlings, 6 to 10 ins. \$40.00 per 1000  
Write for price list of other stock.**HOOK'S NURSERY**

Box 25 Highwood, Ill.

Please Mention  
**THE AMERICAN NURSERYMAN**  
when writing advertisers

the country more beautiful and fruitful.

He learns early the answer to the question, what effect does an excessive number of old maids in a community have upon the crop of clover seed? Old maids keep cats, cats catch mice, mice destroy the bumble-bees' nests, the bees are needed to pollinize the clover.

I once read an estimate, issued by the U. S. D. A., of the amount of loss in dollars caused annually by plant diseases and pests. The figures were astronomical, but it omitted to say that if all the diseases and pests were wiped out there would be no one left to do the figuring.

You see, nurserymen are rather thinly spread over the country and are rather inarticulate. They work more than they talk, and they talk more than they write for publication, which is scarcely ever, but traveling through the country, especially by automobile, you can always tell when you come to a town with a nursery located near it. The lawns and yards are better kept; they are gay with flowers, shrubs, evergreens and trees culled from all over the world. In other words, he is usually a quite desirable neighbor and citizen.

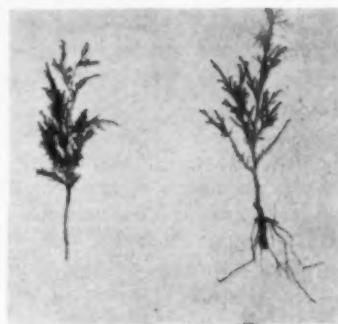
It is fortunate his goods sell themselves, or rather that nearly everyone likes to buy plants and grow things, because he is usually a poor salesman.

We have a girl in our office—she is a farmer's daughter, has a winning smile and wears flat-heel shoes—that has got me beat at selling. A customer comes to the nursery and wants a japonica. I waste a dollar's worth of time explaining there is Hydrangea japonica, Pyrus japonica, Syringa japonica, Kerria japonica and then some. By that time the customer feels small and thinks I am trying to show how ignorant she is. The girl shows her any one of them, collects the 50 cents and sends her away happy so that she will come again.

Nurserymen living so far apart do their courting mostly by correspondence. I am writing this with a pencil from the Milton Nursery Co., Milton, Ore., sent to me last Christmas to write labels with. It is so smooth that I like to write on paper with it. Over my desk hangs a 3-year calendar from Bill Flemmer, Princeton Nurseries, Princeton, N. J. His

**ROOTONE**

Reg. U. S. Pat. Off.

**DID THIS**

Untreated

Treated

**CHINESE JUNIPER****TO ROOT CUTTINGS****Faster and Surer****Dip Base of Cutting**

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**ROOTONE**

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The Plant Hormone Powder

No soaking in solution is needed.

1-lb. can .....\$5.00

2-oz. jar ..... 1.00

P.S. If your cutting bed doesn't have bottom heat, use ROOTONE No. 10, a special strength for conifers, priced at \$10.00 per lb.

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Horticultural Division A-8

AMBLER, PA.

dad was a great nurseryman; so Bill was raised right. I've got lots of other gifts, from Maine to California to Florida to Texas.

Once a year the nurserymen hold a convention. In the old days it was the annual vacation, unless the books happened to be in the red, or collections were poor, or the grasshoppers or hail or drought or something made it so he could not go. That was the red-hot week of the year when the boys got together and proved the nurseryman was something more than brother to the ox.

College professors, government experts, high-pressure salesmen, advertising men, etc., were invited to make addresses, committees were appointed, and motions and resolutions were passed to bring about the millennium. They absorbed knowledge and inspiration enough to last until the realities of the business slowed 'em down.

Although I did overhear one old nurseryman say, "Boy, I don't run my nursery half as well as I know how," all the same it did us good to rub shoulders with the scientists and professors. It really influenced us to send our own sons to college and the sons, being good husky boys, usually made the football team. In fact, one husky son, when asked what he had learned at college, said, not very much except the Lord's Prayer and the football signals—which, after all, is a pretty complete education for these days of so much conflict.

Speaking of college professors, I had the good fortune to meet on the train going to a convention one who perhaps has done as much for the nurseryman as any other man in America. I happened to have a son about ready to go to college, but was a bit dubious about it; so I told him my troubles. I was particularly anxious to find out if my son wanted to be a nurseryman and, if he did, to have him major in those subjects that would be the most use to him.

I once met a nurseryman who talked to me all the way home from a convention about French history, but, as Kipling says, that is another story.

The result of the conversation with the professor was that I asked the late Paul Lindley, Greensboro, N. C., to give my son a job in his nursery for a year to see if he could take it

from others than his dad. Son took it and went to the University of Maryland.

I have always felt grateful to Paul Lindley and Dr. P. W. Zimmerman, who was then professor at the University of Maryland and now is associated with Dr. Crocker at the Boyce Thompson Institute of Plant Research, Yonkers, N. Y.

If any nurseryman does not know what is being done at the Boyce Thompson Institute in the way of finding out why plants behave the way we don't want them to, he ought to be ashamed of himself. But the institute's bulletins are sure highbrow; it takes son to understand them. You cannot keep up with the things they find out. A short time ago I picked up a copy of a magazine, just after coming from the doctor who had prescribed vitamin B1 to pep me up, and there was an article about the marvelous results of using vitamin B1 when transplanting trees in full leaf. But as the author was writing from California, I am going to take the tablets myself, instead of giving them to the plants, until that idea has been checked by Dr. Zimmerman.

When you get old you become reminiscent and garrulous, which does not synchronize with the automobile and tractor. They move fast, and to keep up you have to look ahead and think.

THE contract for the landscaping and grading of the grounds at the new Samuel Gorton high school, Warwick, R. I., was awarded to the P. Campanella Sons Co., Providence, R. I., the lowest of seven bidders.

Write for a copy of  
**OUR FALL PRICE LIST NO. 2,**  
just out, offering attractive prices on  
quality-grown nursery stock.

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**HARDWOOD CUTTINGS**  
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Established 1887 J. R. Boyd  
By J. H. H. Boyd President

## ALPINE GERMINATION.

Results of recent experiments at the Boyce Thompson Institute, Yonkers, N. Y., to obtain more definite information on the germination and growth of rock garden plants have shown that *Campanula barbata* and *garganica*, *Hypericum Coris*, *Pentstemon ambiguus* and *Primula pulverulenta* germinated well over a wide range of controlled temperatures. *Campanula* and *hypericum* germinated well in greenhouse and coldframes, but *Pentstemon ambiguus* and *Primula pulverulenta* did not show favorable results. All but the seeds of *Hypericum Coris* were viable after eleven months' storage at room temperature.

Seeds that germinated over a rather wide range of temperatures as high as 25 to 30 degrees were *Draba azoides*, *Gentiana Lagodechiana*, *Mimulus Langsdorffii* and *Primula denticulata*, but fewer seedlings were produced. The presence of light induced germination at these unfavorable temperatures. Seeds of *Gentiana Lagodechiana* were made to germinate by pretreatment at low temperatures.

*Primula obconica* and *Ramonda pyrenaica* germinated when the usual method of greenhouse germination was used. In this case the seeds were on the surface of the soil and exposed to light.

Ordinary conditions of storage will

## FALL SALE

### Cash and Carry

Bring your men and dig your own at these money-saving prices. There is a charge of 10c extra per tree if we dig and burlap. All first-class sheared stock.

Arbor-vitae, Globe, 12-15-18-24 ins.	\$.40
American, 2-3 ft.	.40
Pyramidalis, 3 ft.	.50
Berkman's Golden, 15-18 ins.	.50
Elegantissima, 3 ft.	.65
George Peabody, 3-4 ft.	.75
Hemlock, 18-24 ins.	.50
Hemlock, 2-3 ft.	.65
Hemlock, 3 ft.	1.00
Rethinopora plumosa, 2-3 ft.	.40
Plumosa, 3-4 ft.	.50
Plumosa aurea, 18-24 ins.	.65
Juniper stricta, 15-18-24 ins.	.40
Stricta, 35 ins.	.50
Pfitzeriana, 18-24 ins.	.90
Irish, 24-30 ins.	.50
Meyers, 18-24 ins.	.90
Taxus capitata, 15-18 ins.	.40
Capitata, 18-24 ins.	.65
Cuspidata, 15-18 ins.	.65
Rhododendron, 2-3 ft.	2.00
Barberry Thunbergii, 18-24 ins., transpl.	.10
Thunbergii, Red, grafted, 15-18 ins.	.20

300 acres. Write for carload prices.

We can furnish B tag with all shipments.

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Telephone: Hartford 9-2373

The Best in Native  
Nursery-Grown

## Rhododendrons

Kalmia Hemlocks

Azaleas and Pieris

LaBars' Rhododendron Nursery  
STROUDSBURG, PA.

## TAXUS

Cuspidata Capitata

1½ to 10 feet.

Best available.

Carloads or truckloads only.

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We specialize in  
**APPLE AND PEACH TREES**  
Strawberry, Asparagus, Raspberry and  
Blackberry plants.  
Grapevines, 1 and 2-year.

OUR MANY YEARS' PRODUCTION  
EXPERIENCE COMBINED WITH OUR  
FAVORABLE LOCATION ENABLES  
US TO OFFER STOCK THAT MUST  
PLEASE AT PRICES YOU WILL AP-  
PRECIATE.

Submit your definite list for quota-  
tions.

**BOUNTIFUL RIDGE NURSERIES**  
Princess Anne, Md.

## SHADE TREES

One to three inches

Birch	Maples
Elms	Oaks
Lindens	Poplars

Spaced and well grown

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Newark, New York

**BURR'S QUALITY**  
**Barberry Thunbergii**

California Privet, Hydrangea P. G.

For Fall 1939 and Spring 1940

**C. R. BURR & CO., INC.**  
Manchester, Conn.

**KOSTER COMPANY, INC.**

STEWARTIA MONADELPHA  
9 to 12 ins., 2-yr., (pl. field) \$150.00 per 1000  
TAXUS CAPITATA SEEDLINGS  
2 to 4 ins., 2-yr., unipl. 25.00 per 1000  
ILEX OPACA SEEDLINGS  
2 to 4 ins., 2-yr., unipl. 15.00 per 1000  
BRIDGETON, N. J. Write for catalogue.

greatly reduce the vitality of *Primula obconica* seeds unless thoroughly dried.

Within three months after plant-  
ing, seedlings of *Calochortus macro-*  
*carpus*, *Camassia Leichtlinii* and  
*Lewisia rediviva* were produced at a  
temperature of 5 degrees. The low  
temperature was for the purpose of  
producing germination and not for  
breaking dormancy. For favorable  
germination of these seeds they  
should be planted two or three  
months before the arrival of warm  
weather.

A 15-minute to 45-minute period  
of treatment with concentrated sul-  
phuric acid produced a large percent-  
age of seedlings from seeds of *Cytisus*  
*decumbens*.

When planted in the autumn and  
kept in coldframes over the winter,  
*Draba alpina* and *Meconopsis cam-*  
*brica* produced good stands of seed-  
lings.

### NEW PLANT PATENTS.

Plant patents issued last month  
were as follows, according to Rumm-  
ler, Rummeler & Davis, Chicago pat-  
ent lawyers:

No. 344. *Carnation*. J. C. Rasmussen,  
New Albany, Ind. A new and distinct  
variety of carnation, characterized partic-  
ularly by its habit of rooting readily; its  
healthy, free-branching and bushy growth;  
its long, strong stems; its nonsplitting  
calyx, and its symmetrical flower of her-  
mosa pink to alizarin pink, which fades but  
little during bright weather.

No. 345. *Strawberry*. Evan L. Russell,  
Jonesville, Va. A variety of strawberry  
plant, characterized by its large crown; its  
long, heavy and vigorous root system, the  
leaves being large and supported on sturdy  
stems, the coloring of the leaves being a  
dark rich green provided with delicate  
veins of a darker hue, the leaves having  
their free edges circular in contour and  
irregularly serrated or notched, the plants  
being free from leaf spot, the flowers being  
"perfect" with sturdy upstanding stems  
that distribute the berries evenly over a  
row of plants, the fruit of unusual size,  
of bright golden-red color, the flesh of the  
berries being red near the outer surface  
of the berry, shot through with light-col-  
ored radial streaks and shaded toward the  
center to a light pink, the berries also  
being of distinctly delicious, somewhat  
wild, flavor and possessing superior ship-  
ping qualities.

THE Berkshire Hills Nursery,  
owned by Fred H. Phelps, who  
founded the establishment forty-four  
years ago, has been legally trans-  
ferred to George V. Barnard. Mr.  
Barnard, who has been associated  
with Mr. Phelps for the past four-  
teen years, will conduct the business  
as Barnard's Berkshire Nursery, at  
Lee, Mass.

## TREES

We have a fine assortment of ex-  
cellent trees for Landscape, Parks or  
Street Planting.

Pin Oaks, Red Oaks, Honey Locusts  
Sugar Maples, Sweet Gums  
European Lindens, Hemlocks and  
Pines

**OUTPOST NURSERIES**

Ridgefield, Conn.

## BOBBINK & ATKINS

Nurserymen since 1898

Rutherford, New Jersey

Send for a copy of our  
1939 Wholesale  
Catalogue.

Use printed stationery, please.

## WHOLESALE TRADE LIST JUST ISSUED

Lower prices on Evergreens, Decidu-  
ous Trees, Shrubbery, Berry Plants, Bar-  
berry Thunbergii, green and red; Ever-  
green Barberry, Glossy Privet, California  
Privet, Lining-out Stock, 2-yr. Budded  
Apple Trees, Peach Trees in quantity—  
Hale Haven, South Haven, Elberta, etc.

It would be to your interest to have  
our new trade list which will be mailed  
on request. For large quantities mail us  
list for Special Letter Prices.

**The Westminster Nurseries**  
WESTMINSTER, MARYLAND

**TAXUS**  
**AZALEAS**  
**RHODODENDRONS**

ASK US ABOUT THEM

**WYMAN'S**

**FRAMINGHAM NURSERIES**  
FRAMINGHAM MASSACHUSETTS

## PRIVET and BERBERIS

Splendid Stock

Write for Special Quotations

**LESTER C. LOVETT**  
MILFORD DELAWARE

**PRINCETON NURSERIES**  
of PRINCETON, N. J.

**SUPERIOR**  
**Hardy Ornamentals**



## Letters from Readers

### BOUQUET TO AUTHOR.

I wish to congratulate you on the series of articles, "Compiling a New Nursery List," by L. C. Chadwick, and to express my appreciation for one of the most helpful contributions made to the general nursery business in a long time. It is rather difficult for anyone engaged in landscape work to be completely familiar with the great bulk of available material, and while many articles have been written telling how to landscape, they usually are of little help in telling what to use. I have learned by long and expensive experience what is suitable and what is not, and I have for years been looking for just such articles as Dr. Chadwick has given us. The person who honestly desires to give his clients the best is now in a position to do so.

Much planting has been done in the past that has not been satisfactory because of choice of unsuitable material. This has resulted, in many cases, in dissatisfied customers, who have promptly lost interest in any further efforts at home beautification, which has not contributed to the increase of nursery stock.

I am looking forward to the series of articles on evergreens with real anticipation. It should prove of equal value and from the many, many instances of poor selections that one sees on our going and coming through the country, it is badly needed. We commend you for the practical manner in which you are going to make it possible to secure these varieties which do not appear in many nursery lists.

May we say in closing that these articles by Dr. Chadwick have been worth all and even more than the cost of a 5-year subscription to your magazine.

M. E. Younken.

### WEIGHT OF TREE BALLS.

In the October 1 issue of the American Nurseryman I was greatly interested to see the short article entitled "Weight of Balled Tree."

For some time I have been working on a new issue of the Tree Preservation Bulletin series which will be devoted to transplanting trees and shrubs. In this connection I have worked out a table showing the average weights of tree-moving balls for

balls from one to sixteen feet in diameter and one to six feet in depth.

The basic weight of soil was determined by the national park service engineering laboratory from thousands of soil tests in all parts of the country. These tests revealed that the weight of soil varies from ninety pounds per cubic foot to 125 pounds per cubic foot, the latter figure rarely being exceeded, and then only in a dense finely graded clay too heavily compacted for plant growth. The average weight of soils in which trees will grow was determined to be 110 pounds per cubic foot, and this figure was used in computing the weights of average tapered earth balls taken in moving trees. Volumes were figured on the basis of cylinders.

In the article referred to, it was noted that volumes were computed on the basis of earth weighing .075 pounds per cubic inch, or 129.6 pounds per cubic foot. Presumably the ball shape was taken to be more or less spherical.

In spite of the differences in the basic methods used in computation, apparently there is a compensating error involved, since the results apparently are similar, varying a maximum of only thirty pounds for a theoretical ball sixteen feet in diameter by six feet in depth and weighing approximately 132,700 pounds, a difference of about .0002 per cent, surely a confirmation of the ready formula given in the article in question.

A. Robert Thompson,  
National Park Service.

### TREE BULLETINS READY.

The demand for the series of pamphlets on shade tree care issued by the national park service and known as the Tree Preservation Bulletins was

so heavy that the original printing was soon exhausted and many orders could not be filled. A new printing has been made and a complete stock now is available for sale at 10 cents per copy.

Orders for the following bulletins, accompanied by cash, check or money order, should be sent to the Superintendent of Documents, Washington, D. C. Stamps cannot be accepted.

The Tree Preservation Bulletins are: 1 and 2 (combined), "Purpose and Policy"; 3, "Tree Bracing"; 4, "Shade Tree Pruning"; 5, "Lightning Protection for Trees"; 6, "General Spraying Practices"; 7, "Rope, Knots and Climbing"; 8, "Safety for Tree Workers."

### EMPIRE'S PROGRESS.

Starting his second quarter-century in business as the Empire Nursery & Orchard, R. L. Baker is opening this autumn a new sales office and display grounds on the Bee Line highway, at Cullman, Ala.

Mr. Baker started his nursery on forty acres of land near Baileytown in 1914, with three acres of grapevines planted. Apple trees were added the following year. Purchase of eighty acres of land was made in 1917 and of another eighty acres in 1918. A still larger addition, of 240 acres, was made in 1924. Today there is growing on 600 acres of land, besides a fine apple orchard, a line of nursery stock including fruit trees, grapevines, evergreens, nut trees, roses and other deciduous shrubs.

To the first packing house, built out of box lumber in which grapevines were shipped twenty-five years ago, a second was added in 1919, in size 16x24 feet, and a third in 1925, in size 60x60 feet. Fruits only were grown until 1927, when evergreens and flowering shrubs were added to the line of nursery stock.

The business is conducted by R. L.

## FINEST LANDSCAPE STOCK

Covering all of the best shrubs and plants for the south. Also a half million of lining-out CAMELLIAS, AZALEAS AND GENERAL NURSERY STOCK.

Write for Price List.

**E. A. McILHENNY**

Specialist in CAMELLIAS, AZALEAS, IRIS and HEMEROCALLIS  
AVERY ISLAND, LA.

**SHADE TREE BARGAINS**

Chinese Elm, 6 to 8 ft.	.....\$0.30
Chinese Elm, 8 to 10 ft.	......50
Lombardy Poplar, 6 to 8 ft.	......18
Lombardy Poplar, 8 to 10 ft.	......22
Bolleana Poplar, 6 to 8 ft.	......30
Bolleana Poplar, 8 to 10 ft.	......45
Niobe Willow, 6 to 8 ft.	......35
Niobe Willow, 8 to 10 ft.	......50
Sugar Maple, 1 1/4 in. to 1 1/2 in.	.....1.10
Sugar Maple, 1 1/2 in. to 2 in.	.....1.75

Write for complete new wholesale list.

**SHERMAN NURSERY COMPANY**  
Charles City, Iowa**Boyd**McMinnville  
Tenn.**NURSERY COMPANY**

We grow a general line of hardy shrubs and tree seedlings, specializing in lining-out stock.

Amoor River North Privet  
Red Bark Dogwood Witch Hazel  
Cercis Canadensis, Redbud  
Cornus Florida, White Dogwood  
Black Walnut and Sweet Gum

Write for our fall trade list, or send us your want list for special quotations.

**CORNUS FLORIDA**

(White Dogwood)

Nursery-grown	Per 10	Per 100
4 to 6 ft., B&B	.....\$6.00	\$50.00
6 to 8 ft., B&B	.....8.50	75.00
8 to 10 ft., B&B	.....12.50	90.00
10 to 12 ft., B&B	.....20.00	175.00

First-class trees. F.o.b. Roanoke, Va. Packing at cost.

**HEDGE LAWN NURSERIES, INC.**  
Roanoke, Va.**SPIRAEA PRUNIFOLIA**

3 to 4 ft.

\$20.00 per 100, \$150.00 per 1000  
Cash with order. Packing free.**PARAMUS NURSERY, INC.**  
Ridgewood, N. J.**MOUNT ARBOR NURSERIES**

E. S. Welch Est. 1875 Shenandoah, Iowa

**A COMPLETE LINE OF GENERAL  
NURSERY STOCK — ASK FOR TRADE LIST**Send us your WANT LIST for quotations  
"One of America's Foremost Nurseries"**WILLIS NURSERY CO.**

Wholesale Nurserymen

Fall price list ready now.

Complete assortment. Low prices.

**OTTAWA - - KANSAS****Special Offer—BIOTA ORIENTALIS**

UNDERSTOCK, T.	8 to 12 ins.	Per 100	Per 1000
UNDERSTOCK, T.	12 to 15 ins.	\$2.50	\$17.50
		3.50	25.00

These are strong forced transplants, excellent understock.

**Fairview Evergreen Nurseries**  
Fairview, Pa.

Baker &amp; Sons at Baileyton, with shipping point at Cullman, where the sales office is being established this autumn.

**OBITUARY.****Mrs. Hettie B. Brooks.**

Mrs. Hettie B. Brooks, 70, operator of the Quaker Hill Nursery Co., Monroe, N. Y., died October 11 after an illness of about a week. She was the widow of Jona R. Brooks, who managed the business with her until his death several years ago. Her years in the nursery business numbered fifty. Four sons and three daughters survive.

**Mrs. W. H. Alderman.**

At the funeral of Mrs. W. H. Alderman, wife of the head of the department of horticulture at the University of Minnesota, October 17, J. V. Bailey, Newport, and J. H. Reed, St. Paul, represented the Minnesota State Nurserymen's Association, at the annual meetings of which Dr. Alderman's talks on new fruits have been a feature. Many attended the services and flowers were numerous and beautiful.

**TREE BAMBOOS BLOOM.**

In Volusia county, Fla., two clumps of Dendrocalamus strictus, the so-called tree bamboo, were found in full bloom recently, and specimens of the bloom are being preserved in the station herbarium. The clumps of bamboo are about forty feet high and the individual canes are approximately three inches in diameter. They are believed to be about 50 years old.

In southeastern Asia, the home of this bamboo, it is reported that the plants bloom at intervals of from twenty-five to fifty years and that every clump in great fields will bloom simultaneously, whether the clumps are large or small, old or young. Before blooming the canes shed their leaves, and the blooming and seeding process so weakens the plants that they usually die. Sometimes they sprout again from the roots, but frequently the new growth must start from the seeds.

**LOWEST** bid for landscaping the grounds of the Nunda central school, Nunda, N. Y., was submitted by Four Winds Farm Nursery, Inc., Eggertsville, N. Y.**Carloads****HARDY****Canadian-Grown****SHADE TREES - EVERGREENS  
PERENNIALS ROSES****FRUITS** (including the famous new Peaches Vedette, Valiant, Veteran, etc.)

Send us your want list or write for prices. Quality and prices will be right.

**E. D. SMITH & SONS, LTD.**

Canada's Greatest Nurseries

WINONA

ONTARIO

**NORWAY MAPLES****Specimen Trees**

In sizes up to 4-inch cal.

Attractive prices in quantity lots.

Also complete list of nursery stock.

Send for prices.

**THOMAS B. MEEHAN CO.**

DRESHER, PA.

**A complete line of****ORNAMENTALS and  
LINING-OUT STOCK****CHASE'S****50th Anniversary****Trade List**

Fall 1939

Spring 1940

Send for your copy

**CHASE NURSERY CO.**

Chase, Alabama

**NURSERY STOCK  
AT WHOLESALE***New Perennial Introductions***ARTHUR DUMMETT**

61 West Grand St.

Mt. Vernon, N. Y.

**LINERS, extra nice**

Berberis, Callyanthus, Cornus, Crataegus Cordata, Fraxinus, Malus Coronaria, Chinese Elm, Multiflora Rose Stock, the nicest block of Multiflora in the country. How many do you want and what size? A good many other items in quantity. Send for bargain list, now.

**ATLANTIC NURSERIES, Inc., BERLIN, MD.****Old English****BOXWOOD**

Wholesale

10 ins. and up — Any quantity

**BOXWOOD GARDENS**

Mrs. R. P. Royer,

High Point, N. C.

# Mail Order Group Meets

*Discuss Postage Rates, Legislation and Crops at Annual Meeting at Chicago*

About fifteen members of the National Mail Order Nurserymen's Association attended the autumn meeting at the Hotel La Salle, Chicago, October 18.

In opening the meeting, President Elden H. Burgess said that, because of the limited attendance at recent meetings, he had questioned their continuance, in a letter to other members of the association, but the consensus was for carrying them on. Inasmuch as all but a few of the forty-one members are also members of the American Association of Nurserymen, there was discussion of forming a group within the national body for mail order nurserymen, somewhat along the lines of the landscape group of the A. A. N. now being organized.

The recent reduction in postage rates on catalogues of large sizes, without corresponding reduction in rates on parcel-post packages, caused considerable discussion, particularly with a view to seeking a similar reduction on parcel-post packages of nursery stock. The chairman of the meeting was empowered by resolution to take the matter up with the secretary of the American Association of Nurserymen, on behalf of the mail order men in that body, in an attempt to arrange a conference with post-office authorities at Washington, D. C., to consider this matter.

The changes in wages and hours under federal legislation brought out some comparisons in practices. Of course, wages and hours legislation does not affect employees who work at the nursery—on a farm—in any capacity, because they are exempt as agricultural labor. If the office, storage house and shipping quarters are away from the nursery, the employees engaged in grading, sorting and packing are exempt so long as they handle only the stock grown at the nursery itself. If they handle stock brought in from other nurseries they are not exempt during the work week in which such stock is handled. Consequently, it is desirable to have separate employees handle that stock, or restrict to cer-

tain weeks the handling of purchased stock.

The afternoon session was devoted principally to crop discussion. There seemed to those present strong indication of a shortage of cane fruits and strawberries before the close of the spring shipping season, but likelihood of plenty of available stock in most of the other classes, in spite of the fact that heavy losses have been suffered from drought in many parts of the country. Even with an ample supply of nursery stock, the rising costs of business operations make reduction in prices unlikely.

Present were Elden H. Burgess, president, Galesburg, Mich.; Vernon Krider, vice-president, Middlebury, Ind.; B. W. Keith, secretary-treasurer, Sawyer, Mich., and Ralph Em-long, executive committee member, Stevensville, Mich. The other executive committee members are Frank Beatty, Three Rivers, Mich., and George Stromer, New Buffalo, Mich. The officers were reelected for another year.

Members attending were Jack Harrison, Storrs & Harrison Co., Painesville, O.; C. H. Andrews, Andrews Nursery Co., Faribault, Minn.; R. W. Ackerman, Ackerman Nurseries, Bridgman, Mich.; Victor Judson, Bristol, Ind.; William Westhauser, Westhauser Nursery, Sawyer, Mich.; G. W. R. Baldwin, O. A. D. Baldwin Nursery Co.,

Bridgman, Mich.; Leonard Condon, Condon Bros. Seedsmen, Rockford, Ill.; A. H. Jung, J. W. Jung Seed Co., Randolph, Wis.; A. H. and H. J. Bradley, Bradley Bros., Carbondale, Ill., and H. Goldstein, A. E. Kunderd, Inc., Goshen, Ind.

## NUT GROWERS MEET.

The Northern Nut Growers' Association held its thirtieth annual meeting at Rockport, Ind. About sixty persons attended the sessions. Papers were presented on various phases of nut culture.

Considerable time was devoted to the field trip on which several plantings of nut trees were visited, chiefly pecans, hickories and walnuts.

The 1940 meeting will be held at Roanoke, Va., the last three days of the week in which Labor day occurs. At this meeting chestnuts will be a major attraction.

Officers elected were as follows: President, Dr. A. S. Colby, University of Illinois, Urbana; vice-president, H. F. Stoke, Roanoke, Va.; treasurer, D. C. Snyder, Center Point, Iowa; secretary, G. L. Slate, Geneva, N. Y.

## VIBURNUM BURKWOODII

NEW - SCARCE - HARDY

Most striking improvement in flowering shrubs in many years—fragrant pink and white flowers.

Fall 1939 Delivery

	Per 10	Per 100
15 to 18 ins. B&B....	\$10.00	\$ 85.00
18 to 24 ins. B&B....	15.00	125.00
2 to 3 ft. B&B.....	20.00	175.00
3 to 4 ft. B&B.....	30.00	250.00

F.O.B. Dayton, Ohio.  
Packing extra at cost.

The Siebenthaler Company  
DAYTON, OHIO

## CHINESE ELMS

North Iowa grown, heavy.

Seedlings: 12 to 18 ins., \$4.00; 18 to 24 ins., \$6.00; 2 to 3 ft., \$9.00; 3 to 4 ft., \$14.00; 4 to 5 ft., \$24.00 per 1000.  
Transplanted, 4 to 5 ft., \$12.50; 5 to 6 ft., \$18.00; 6 to 8 ft., \$35.00; 8 to 10 ft., \$55.00 per 100.

NORWAY SPRUCE, 2 to 3 ft., \$20.00; 3 to 4 ft., \$30.00 per 100.

DOUGLAS FIR, 2 to 3 ft., \$30.00 per 100.  
Boxing or baling free. Ask for prices on other stock.

GRAETTINGER NURSERY  
Graettinger, Iowa

## JUNIPERUS PFITZERIANA

Strong rooted tip cuttings.

\$3.50 per 100, \$30.00 per 1000

J. B. BEALLE Greenwood, Miss.

Growers! Nurserymen! Professionals!  
Seedsmen! Get your supply NOW...

## Vitamin B<sub>1</sub>

— FOR PLANTS

... That amazing, life-giving plant tonic. Experimenters report many startling results. Don't pay layman-consumer prices. Supply your own toothpick and eyedropper! Buy in wholesale quantities—get more for your money.

New prices: Two decigrams (2/10 gram) —\$2.00. Five decigrams (5/10 gr.) —\$3.95. One gram—\$5.85. Five grams—\$27.75. (One gram makes up to 30,000 gal. watering solution.) Write for attractive quantity prices and terms. Send trial order for gram TODAY.

JEAN MACLEAN & ASSOCIATES  
Nur. Dept. 519 Paramount Bldg. Des Moines, Ia.



## GRAFTED EVERGREENS

Bedded strong stock  
for fall planting

Size 12 to 16 ins.,  
\$37.50 per 100.

Canaertii, Glauca, Burkii, Hillii,  
Mascula, Columnaris glauca, etc.

THE  
PAUL OFFENBERG NURSERY  
1988 E. Livingston Ave., Columbus, Ohio

## Colorado-Grown

Chinese Elm, seedlings and transplants.  
Caragana Arborescens, transplants only.  
Now booking orders for spring ship-  
ment in combination carloads. Whole-  
sale list on request.

Eastern representative  
Ralph R. Coe  
Box 253, Painesville, Ohio.

Swink Nursery Company  
Box 330  
Swink, Colorado

## HARDY TREES at BARGAIN PRICES

CHINESE ELM—Large Sizes  
6 to 8 ft., 8 to 10 ft., and Caliper

RUSSIAN OLIVE SEEDLINGS

Low Prices on Large Quantities

HONEY LOCUST SEEDLINGS

Write for Wholesale Prices

THE HOUSE OF GURNEY, Inc.  
Yankton, South Dakota

## COTONEASTER APICULATA

(cranberry cotoneaster)

Procumbent — Horizontally Branched  
Glossy Green Foliage—Large Red Berries  
proved absolutely hardy in  
central and northern Ohio

Fall 1939 Delivery

Each Per 10 Per 100  
18 to 24 ins., B&B. \$1.15 \$10.00 \$90.00  
F.O.B. Springfield, Ohio  
Packing extra at cost.

THE BERRYHILL NURSERY CO.  
Box 696 Springfield, Ohio

## CHINESE ELM

Pumila, Northern Strain  
All transplanted stock, 3 and 4 years old.  
3 to 4 ft., 10c; 4 to 5 ft., 12c; 5 to 6 ft.,  
20c; 6 to 8 ft., 40c; 1 1/4 to 1 1/2 ins., 65c.  
Approximately 25,000 to select from.  
Inspection solicited.

SWEDBERG NURSERY, Battle Lake, Minn.

## MEET AT HOUSTON, TEX.

The Association of Nurserymen and Landscape Architects of Houston, Tex., held its monthly session October 16 at the home of R. N. Moseley, of the Jeanerette Gardens, on the Post Oak road. Thomas Bell Foster, president, presided during the business session.

W. L. Blum, chairman of the "Jaycees" beautification committee, discussed further plans of the contest and program of beautification undertaken by his committee. He reported full cooperation from the organizations he had contacted, and he was given at the meeting a list of prizes offered by members of the association, of trees, shrubs and lawn services, to be distributed by the "Jaycees" in their proposed contest. Open house, held by nurserymen and landscape men at their places of business the ensuing week, was also in cooperation with the movement sponsored by the "Jaycees."

The legislation committee reported the progress made in regard to the cooperation of the Texas department of agriculture and its inspection department in the control of diseases and insects in the vicinity of Houston. The chief of the department of inspection and quarantines, at Austin, has designated a full-time nursery inspector for Houston territory.

A membership committee was appointed, with O. J. Anderson as its chairman. Miss Wilma Gunter was named chairman of the sick committee, to remember members of the association during illness.

The association voted to make application for membership in the American Association of Nurserymen, as an associated organization.

The directors were requested to work out and present at the next meeting recommendations for a slogan or emblem for the local association, to be adopted by the membership for general use.

After the adjournment of the business session, refreshments were served by Mr. and Mrs. R. N. Moseley. The next meeting will be held November 20.

Wilma Gunter.

THE landscaping contract for improvement of the campuses of the Phoenix Junior College and North Phoenix high school went to Norman Nursery & Flower Shop, Phoenix, Ariz.

## TAXUS CUSPIDATA

### Spreading Yew

Improved dark green strain. Best for sun or shade, foundation plantings and hedges.

	Each
18 to 24 ins.....	\$1.25
2 to 2 1/2 ft.....	1.65
2 1/2 to 3 ft.....	2.50

Also larger sizes

The above prices in lots of 100  
f.o.b. Cincinnati, Ohio

THE W. A. NATORP CO.  
Cincinnati, Ohio

## JUNIPERUS VIRGINIANA

Understock

\$50.00 per 1000

Fine clean stock

HOLTON & HUNKEL CO.  
Milwaukee, Wis.

## Juniperus Chinensis Pfitzeriana

Lining-out stock

3-yr., once transplanted and staked

	Per 100	Per 1000
5 to 8 ins. ....	\$10.00	\$ 85.00
9 to 12 ins. ....	16.00	145.00

Grown right, handled right and packed right. Cash or satisfactory reference.

AUGUSTINE NURSERIES  
A. M. Augustine, Prop.  
Normal, Ill.

## EVERGREENS

Lining-out and Specimens

Fruits and Shrubs

Write for price list

J. V. BAILEY NURSERIES  
Daytons Bluff Sta. St. Paul, Minn.



## EVERGREENS

For Seventy-five Years  
Growers of Quality Evergreens  
Lining-out Stock a Specialty  
Write for Trade List

EVERGREEN NURSERY CO.  
Established 1884 : STURGEON BAY, WIS.

## WHOLESALE TO NURSERYMEN

100,000 1-year, heavy, once transplanted  
Mail's Japanese Honey suckle  
equal to most of the 2-year stock we have seen.  
Many other varieties in lining-out seedlings—  
White Fringe, Tulip Poplar, Sugar Maple, many  
varieties. Write your wants.

TARLTON NURSERIES, Morton Bros.  
Route 7 McMinnville, Tenn.

## New York Tax Case

### *Seek Funds to Oppose Appeal in State Supreme Court on Unemployment Insurance Tax Ruling*

Because the industrial commissioner has been rather slow in printing the records, it will probably be January before the nurserymen's case with regard to the unemployment insurance tax is heard before the appellate division of the New York State Supreme court, according to Paul Fortmiller, chairman of the special committee on this matter for the New York State Nurserymen's Association. As previously reported, the decision of the state department of labor's board of appeals was favorable to the nurserymen, but the state industrial commissioner has appealed on the decision, so that it will be necessary for the nurserymen of the state to oppose the appeal when it comes up in court.

At the summer meeting of the association, the members present voted to fight the case in court, and efforts are being made to raise the necessary funds.

So far, expenses to date and expenses necessary to finish the fight are estimated at \$3,200, of which cash and pledges received to date are \$1,945, of which \$225 was raised through the Long Island Nurserymen's Association, \$155 through the Allied Nurserymen's Association and \$1,565 through the New York State Nurserymen's Association.

There is still needed \$1,255 in order to pay the cost of defense of the case in court, and L. J. Engleson, president of the state association, appeals to all the nurserymen in New York state to contribute their share.

Under the present law, New York nurserymen are liable for unemployment insurance taxes since 1936, which would amount to about \$150,000 a year. All this sum can be saved by securing a favorable decision in court.

To eliminate this tax burden, individual nurserymen are asked to contribute a sum equal to one-half of one's year's tax debt. This contribution is on the same basis as that of the florists of the state in prosecuting a similar case; the florists assessed their members fifty per cent of one year's tax liability based on

the tax rate of three per cent of the annual pay roll.

Nurserymen not members of any of the organizations mentioned should send checks to L. J. Engleson, C. W. Stuart & Co., Newark, N. Y., made payable to New York State Nurserymen's Association, Unemployment Insurance Fund. Members of the Allied Nurserymen's Association should send their checks to H. Sherwood Guernsey, president, Schoharie, N. Y., while Long Island Nurserymen's Association members should send checks to Flemmer Folk, Bloodgood Nurseries, Albertson, L. I., N. Y.

LISTING New York nurserymen certified up to October 1, 1939, circular 573 of the state department of agriculture shows that in 1938 there were 1,236 nurseries in the state, with 11,732 acres of nursery stock, and 403 nursery dealers, besides 441 certified raspberry growers with 1,217 acres of plants.

### NEW STRAWBERRIES.

Four new strawberries, developed on the grounds of the New York experiment station, Geneva, are recommended for trial by Professor G. L. Slate, small fruit specialist.

These new varieties, Cato, Catskill, Clermont and Culver, are the results of crosses between Howard and Marshall. Both parents are strawberries of high quality. These new berries are described as being exceptionally vigorous and excellent plants, with large, glossy, attractive fruits of good quality, which ripen about midseason.

Planting stocks are now available from some nurserymen and from the New York State Fruit Testing Association, which cooperates with the experiment station in distributing new fruits.

Cato, chiefly a home variety, bruises easily and will not make a satisfactory market berry. Clermont is exceptionally well adapted to use as a market and home variety. Culver is a rather dark berry and ripens late in midseason and is excellent for preserving. Catskill does not compare favorably with the other new varieties, but has done exceptionally well in northeastern United States and has received an award of merit from the Massachu-

"Send us six more copies. It is one of the most useful documents that has come our way in a long time."—H. B. Chase, Pres., Chase Nursery Co.

"Dr. Chadwick's list is truly excellent. The sources of supply appended is very good, indeed."—Donald Wyman, Horticulturist, Arnold Arboretum.

96 pages — 40c per copy

## "COMPILING A NEW NURSERY LIST"

Selection of Superior Varieties of  
Woody Deciduous Ornamental Plants

By L. C. Chadwick

Describes and discusses the best plants among trees and shrubs in various sizes, vines and ground covers.

Lists uses, culture, characteristics, growth habits to make easy selection of suitable varieties for various landscape purposes.

Sources of supply of selected plants indicated in key list of 68 nurseries.

GROW THE BEST — PLANT THE BEST

AMERICAN NURSERYMAN

508 South Dearborn St., Chicago, Ill.

Enclosed is remittance for ..... copies of the book,

"COMPILING A NEW NURSERY LIST."

☐ 1 copy, 40 cents

☐ 3 copies, \$1.00.

Name .....

Address Street.....

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## Juniperus Virginiana

Selected Understock Seedlings,  
\$15.00 per 1000.

Selected Understock Transplanted,  
\$35.00 per 1000.

Don't miss this offer. Take advantage while it lasts.

**O. H. PERRY NURSERY CO.**

Box 545

McMinnville, Tenn.

## JEWELL SPECIALS

Bleeding Hearts, Large-flowering Clematis, Bolleana Poplar, Gypsophila Bristol Fairy, Evergreen Liners, Persian Lilacs and Hard Maple.

A complete line of fruits, trees and shrubs. Write for price list.

**THE JEWELL NURSERY CO.**

Pouch A

Lake City, Minn.

## ROSES

Carlots of field-grown roses, budded stock, at 4½¢ each, cash. Write for list of 60 varieties. Carlot shipments begin in December. Small lots in November.

**BROWN & LARSON ROSE NURSERY**

R. 9

Tyler, Tex.

## PEONIES

All types, including Tree Peonies

**The Cottage Gardens**  
Lansing, Mich.

## PROFITABLE PEONIES

Best Varieties. Attractive Prices.  
Fine quality roots, liberally graded.  
28th Annual Catalogue ready.

**HARMEL PEONY COMPANY**

Growers of Fine Peonies since 1911  
Berlin, Maryland

## QUALITY PERENNIAL PLANTS

Specialties  
Gypsophila Bristol Fairy and Dicentra Spectabilis.

Let us quote on your perennial needs.

**PERENNIAL NURSERIES**

Alva H. Smith

Painesville, O.

R.F.D. 2

## Famous Cushion Mums

**TRUE HARDY AMELIA VARIETIES**  
Supply unlimited. Quality unsurpassed.  
Big catalogue, free for the asking.

**WONDERLAND NURSERIES,** Ellersson, Va.

## HERBS

Pot-grown plants: over a hundred varieties.  
Dried Herbs for Flavoring and Fragrance.  
Other plants of unusual character and with the charm of old-time gardens.

New Catalogue sent on receipt of 10 cents.

**WEATHERED OAK HERB FARM, INC.**

Bradley Hills, Bethesda, Maryland

setts Horticultural Society. It is a good market berry in sections where it does well.

### BLIGHT-RESISTANT PEARS.

Fire blight, the most destructive of all pear-tree diseases in California, has cost growers many millions of dollars during the past thirty years. On the basis of information gathered by the state agricultural experiment station, many growers are now using the resistant variety Old Home for the framework of their trees. Old Home is grafted at the roots onto French pear seedlings at ground level, and then Bartlett or another commercial variety is grafted into the Old Home branches at a height of about four to six feet above the ground. By this method, blight attacking the branches can run down the tree only as far as the Old Home portion, and at least the bodies of the trees can be saved. The French pear roots, however, are not resistant and may be directly infected and killed by the disease. The next step, then, must be the development of blight-resistant roots.

In one promising method, Old Home is propagated on quince roots. The quince root is not blight-resistant and ordinarily makes a semidwarf tree. But if the graft union is made so that it will be far below ground level after planting, the Old Home will develop strong blight-resistant pear roots above the union, the quince serving merely as a nurse root. Experiments indicate that trees grown by this method will attain normal size.

Six plots in five California counties are now devoted to testing blight-resistant roots and bodies for pear trees and the best methods of top-working them to commercial varieties. Thirteen blight-resistant varieties, besides the Old Home, have been found and are under test for their ability to develop a strong framework and their resistance to a bacterial canker to which Old Home is susceptible.

FEATURED speaker on the fruit growers' program at the convention of the Wisconsin Horticultural Society, at Sheboygan, November 16 and 17, is Dr. H. B. Tukey, chief of research at the New York agricultural experiment station. He will speak at the afternoon session and at the banquet in the evening, the first day, and at both morning and afternoon sessions on the second day.

## RASPBERRIES

Latham — Chief  
Newburgh — Taylor  
Indian Summer Everbearing

## RED LAKE CURRANT

## MACDONALD RHUBARB

**MANCHURIAN CRAB** Under-Stocks

**ANDREWS NURSERY**

Faribault, Minn.

*If it's new for  
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### Wholesale Growers of

Grapevines, Currants, Gooseberries,  
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GRAPE VINES, CURRANTS, GOOSE-  
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Growing for the wholesale trade since 1890. The quality of our plants will please your most critical customers. Get our attractive quotations before placing your order.

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## SMALL FRUIT PLANTS

Evergreens—Shrubs

Lining-out Stock

Send for Complete Trade List

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## Taylor Red Raspberry Plants

State inspected, original stock from New York Experiment Station.

No. 1, 3/16-inch up, well rooted,

\$10.00 per 1000.

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**Fred Hazelton**

Le Roy, N. Y.

### OUR SPECIALTIES ARE

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### NOTICE

50,000 Apple and Peach trees, commercial varieties to offer for fall and spring shipment. 25,000 2-yr. Amer. River North Privet. We are in the market for 2000 to 4000 each of lining-out Berkman's, Benitas and Pyramidalis Arbor-vitae; Mugo, Scotch, Austrian and White Pine; Striata, Irish, French, English, Pfitzer's, Savins, and Andorra Junipers. Need several thousand lining-out shrubs also.

**EGYPTIAN NURSERY CO.,** Farina, Ill.



# California Association

*New Officers Prepare to Carry Out Reorganization Plan Adopted at Convention Held Last Year*

The brief announcement of the new officers of the California Association of Nurserymen in the October 15 issue contained two errors, one in the firm connection of the president and the other in the initials of the secretary.

The officers elected for the year 1939-40 are as follows: President, Frank W. Tuttle, Ruehl-Wheeler Nursery Co., San Jose, Cal.; vice-president, Jess C. Wyatt, Armstrong Nurseries, Ontario, Cal.; executive secretary and treasurer, Gordon C. Wallace, Leonard Coates Nurseries, San Jose, Cal.; honorary secretary, Henry W. Kruckeberg, Los Angeles, Cal.

Members of the board of control will be appointed by the chapters which make up the association, at their next regular meeting.

The California Association of Nurserymen was almost completely reorganized during the summer of 1938. The reorganization plan was submitted to the board of control at a meeting held at Los Angeles in the autumn of 1938 and adopted. The general gist of the reorganization plan is given by the new president, Frank W. Tuttle, as follows:

"Due to the large size of our state and the widely varying conditions of soil, climate and general economic factors, there are necessarily many local problems in connection with our industry which do not apply generally, but are of considerable importance to the locality concerned, and which have been a source of friction and misunderstanding at our annual conventions. Also, since our state is approximately 900 miles long and 300 miles wide, it has been, in the past, extremely difficult to get any appreciable number of the approximately 3,500 licensed nurserymen of the state to travel the long distances involved, to attend the annual conventions of the association, at which, in the past, most of the business of the association was transacted.

"In considering plans for the reorganization, the thought was that if we could establish regional chapters throughout the state, we should be able to have a much more repre-

sentative organization. Each chapter was to consider and handle its own problems and conduct its own affairs, subject to the general provisions of the constitution of the state association. Each chapter was to have one representative on the board of directors of the state association for each fifty members, or fraction thereof, in the chapter. The functions of the board of directors were to be strictly limited to matters of concern to the entire industry of the state. As we see it now, the main function of the board of directors will be that of a legislative committee, in battling some of the more bizarre legislation and proposals for which our state is justly famous.

"It has, of course, been a slow and sometimes baffling job to get the reorganization established. Many features of the plan were acceptable to some portions of the state and decidedly not acceptable to the others. Changes have been made to meet objections, only to have more objections crop up. However, we believe

that we have at last found a setup that will be acceptable to both northern and southern California. A miraculous achievement, if it works!

"The two outstanding nurserymen's organizations in the state will shortly be chapters 1 and 2 of the California Association of Nurserymen. We hope within the next few months to establish two more chapters. The two organizations mentioned above are Horticultural Industries, Inc., of Los Angeles and vicinity, and the Central California Nurserymen's Association, of San Francisco and vicinity."

JOHN STEINWEDEN, assistant chief of the California bureau of nursery service, talked to members of the Central California Nurserymen's Association at its meeting, at Oakland, October 12. Mr. Steinweden talked on the amendments to the grades and standards act.

## PORTLAND WHOLESALE NURSERY CO.

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### Oregon-Grown - Quality Guaranteed

BIRCH, Cutleaf Weeping. All grades.  
BOX ELDER, Silver Variegated, 3-4, 4-5.  
CHERRY, Kwanzan Dbl. Flg. All grades.  
CRAB, Bechtel's Flowering. All grades.  
ELM, Chinese, 6-8, 8-10.  
HAWTHORN, Paul's scarlet. Whips only.  
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MOUNTAIN ASH, European, 6-8, 8-10.  
OAK, Pin, 6-8, 8-10.  
PEACH, Pink, Red and White Flg., 4-5, 5-6.  
PLANE TREE, European, 6-8.  
PLUM, Blireana, 5-6, 6-8, 8-10.  
PLUM, Triloba, 2-3, 3-4, 4-5.  
ALMOND, Pink-flowering, 2-3, 3-4.  
AZALEA, Mollis, 9-12, 12-15.  
BARBERRY, Truheedge, Redleaf and Thunbergii.  
KERRIA, Japonica Double, 2-3, 3-4.  
PHILADELPHUS, Virginalis, 2-3, 3-4, 4-5.  
QUINCE, Scarlet, from cuttings, 18-24, 2-3, 3-4.

ROSES—A complete list of up-to-date varieties.

SHIPPING—Carload accommodations can be arranged to eastern points for winter and spring delivery.

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## HARDY, NON-IRRIGATED ROSEBUSHES

and

## FULL LINE OF EVERGREEN-SHRUBS

"Special"—

## OREGON GRAPE

Healthy and Bushy

2 to 3 ft. high at 75c each

## MOUNTAIN VIEW FLORAL NURSERIES

Troutdale, Oregon

## APPLE SEEDLINGS CHINESE ELM SEEDLINGS

Yakima Valley grown.

WASHINGTON NURSERIES  
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## HARDY PLANTS

Bleeding Heart, 2 to 5-eye clumps, \$7.50 per 100;  
6 to 10-eye clumps, \$12.50 per 100.  
Delphinium, Blackmore & Langdon, 1-yr. plants,  
\$1.25 per 100; \$10.00 per 1000; 3-yr. clumps,  
\$4.00 per 100.  
Columbine, Scott Elliott, 1-yr. plants, \$1.25 per  
100; \$7.50 per 1000.  
Pyrethrum, 2-yr. untransplanted, \$2.00 per 100.  
Iris, 1 each, 200 varieties, labeled, \$15.00; 20  
each, 50 varieties, \$12.50.

SMITH GARDENS

CLARKSTON, WASH.



Due to very favorable growing conditions in Oregon during the past season, our lining-out stock and B & B grades are in exceptionally fine condition.

Write for Wholesale Trade List.

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Evergreens  
Propagators & Growers  
141 S. E. 45th Avenue PORTLAND, ORE.

## FRUIT and SHADE TREE SEEDLINGS

Oregon and Washington Grown  
Apple, Pear, Mahaleb, Mazzard,  
Myrobalan

Quince (rooted cuttings)

Chinese Elm Seedlings

Complete Line General Nursery Stock.

Chinese Elm, Transplanted Specimens.

Norway Maple, Lining-out Whips.

Send list of your wants for prices.

New catalogue now ready.

Combination carloads to eastern distributing points.

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Since 1878  
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## Mahonia Aquifolium

(OREGON GRAPE)

Seedlings, 4 to 12 ins., row run, \$20.00 per 1000.

Transplants, 2 yrs. in field, nice bushy stock, once cut back, 12 to 15 ins., 30c; 15 to 18 ins., 40c.

**SORBUS ACUPARIA**  
(EUROPEAN MOUNTAIN ASH)  
Branched transplanted stock, 4 to 5 ft., 30c; 5 to 6 ft., 40c.

**ENGLISH HOLLY**  
SEEDLINGS  
4 to 12 ins., \$10.00 per 1000; \$5.00 per 100. 250 at 1000 rate.

### MOUNT VERNON NURSERY

Mount Vernon, Wash.

## Field-Grown Rosebushes

HOWARD ROSE CO.  
Hemet, California



## Perfection Currants Fruit Tree Seedlings

Let us quote on your needs

DENISON & BLAIR

Troutdale

Oregon

## WASHINGTON NEWS.

Charles F. Jenkins, accompanied by Mrs. Jenkins, of the Hemlock Arboretum, Germantown, Philadelphia, Pa., who has amassed an outstanding collection of all types of tuga, visited Howard E. Andrews & Co., Seattle, renewing an acquaintanceship of thirty years' standing. Mr. Jenkins was intensely interested in the luxuriant growth of the evergreens in the northwest area and the great varieties of available nursery stock. Many specimens on the Richmond Nursery aroused favorable comment. The writer believes the biggest thrill Mr. Jenkins had was comparing the growth and form of the conifers in driving through miles of virgin timber to the highest point on Mount Rainier. The bulletin of the Hemlock Arboretum, at Far Country, is available to all.

F. A. Murphy, Murphy Rhododendron Gardens, Rolling Bay, visited Vancouver, B. C., and Mount Vernon, Wash., last week.

C. P. Malmo, Charles Malmo Nursery, Seattle, wed October 17, is on his honeymoon trip to California.

Frank Bonnell, Bonnell Nurseries, inaugurated a sale of nursery stock last week, and available room for parking was at a premium.

J. W. Adams, Richmond Nursery, Richmond Beach, sent three large truckloads of conifers to Vancouver, B. C. Mr. Adams spent a week at Portland and vicinity last week.

The nurserymen in the northwest area are gratified with fall activity.  
W. L. Fulmer.

TWO 18x50 foot propagating houses have been built by the E. E. Leverett Floral & Nursery Co., 4700 Ross avenue, Dallas, Tex., at the 20-acre nursery, four miles north of Mesquite, Tex. M. N. Arnold, formerly with Hendrix & Glass, at Farmersville, is now in charge of propagation at the nurseries.

MEMBERS of the New Orleans Horticultural Society were guests of Henry Kraak and C. W. Meibaum at the October meeting. An old-fashioned southern barbecue was the feature at the Kraak Nursery, New Orleans, La. The barbecue pits and the tables were under the trees which make the front part of the place an unusual beauty spot even in that country of lush growth.

## A. MCGILL & SON

FAIRVIEW, OREGON

Wholesale Only

## GOOD WESTERN-GROWN NURSERY STOCK

Fruit Tree Seedlings  
Flowering Ornamental Trees  
Shade Trees  
Roses

Grown right and packed right.

Combination carloads to Eastern distributing points will save you on freight.

## We are now booking orders for

Vine Maple Seedlings.  
Norway Maple, Whips and Seedlings.  
White Birch, Trees and Seedlings.  
Cutleaf Birch.  
Pacific Dogwood Seedlings.  
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Chinese Elm, Trees and Seedlings.

Catalogue mailed on request.

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## OREGON'S BEST SOURCE OF GOOD ROSES

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Wholesale Rose Growers  
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200 Varieties

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Orengo, Oregon  
WHOLESALE GROWERS

Fruit, Shade, Flowering Ornamental  
Trees, Fruit-tree Seedlings, Roses, Etc.  
Very complete line of quality stock  
Catalogue sent on request.

## New Books and Bulletins

### PRONOUNCING DICTIONARY.

Just from the press is the "New Pronouncing Dictionary of Plant Names," which will be of much helpfulness to nurserymen, their employees and their customers. In its sixty-four pages, 4x6 inches, bound in a blue paper cover, are included approximately 3,000 plant names and botanical terms, with diacritical marks indicating correct pronunciation, followed by a brief definition in each case. Selection of the names included, indication of accurate pronunciation and preparations of brief but useful definitions were a task of months. The little booklet is a big quarter's worth and should be on the desk of everyone in the trade.

Over a period of thirty years, thousands of copies were sold of the smaller pronouncing dictionary, including about half as many names and without definitions. Impressed with the wider call for a better pocket dictionary, the publisher spared no pains to produce this accurate and authoritative new edition. The only thing the same is the price, 25 cents per copy. Five copies sell for a dollar, and prices are quoted on larger quantity orders. Published by the Florists' Publishing Co., this pronouncing dictionary may also be ordered through the American Nurseryman.

### "AMERICA'S GARDEN BOOK."

Another attempt to put between the covers of one book as much information as the average gardener needs to know appears in "American Garden Book," just published by Charles Scribner's Sons, at \$3.50. The authors are Louise Bush-Brown, director of the School of Horticulture, Ambler, Pa., and James Bush-Brown, a member of the American Society of Landscape Architects and of the school staff. Other members of the school staff contribute a few special chapters.

According to the foreword, "the authors have endeavored to meet the needs of those living in suburban and country communities for accurate information on all phases of garden making." In 1,222 pages much ground is covered in a selective, rather than an all-inclusive or encyclopedic man-

ner. Thirty-four chapters, ranging from a half-dozen to over 100 pages in length, present information on subjects from soil, design and construction plans to tools, propagation and methods of pest control. Each group of plants—ground covers, vines, trees, shrubs, annuals, perennials, bulbs, roses—receives a chapter. So does each of the various types of gardens—rock, woodland, herb, city, window, fruit, etc.

A wide variety of information is given, reinforced with numerous sketches and pictures and an index of 110 pages. For the beginner this should be an extremely useful book, and for others the easily accessible data of the text and tabular matter should make it a handy reference work. It is well printed in large type and bound in green washable cloth covers.

### FARM WOODLANDS

"The Management of Farm Woodlands," by Cedric H. Guise, just published by the McGraw-Hill Book Co., at \$3, was designed primarily by the author to meet the needs of students in agricultural colleges and other institutions where instruction in farm forestry is offered. It is also, however, of direct assistance to owners of

farm woodlands, for the material in it is applicable to farm woods of several acres and larger areas not extensive enough to be commercially operated forests.

The author, who is in the department of forestry of the New York college of agriculture at Cornell University, has taught farm forestry for twenty years, and the material he presents is detailed and complete.

The chapters include a general introduction to the subject, botanical information on the structure of trees, planting lists by regions of the United States, methods of measuring products and stands, the establishment and care of woodlands and, finally, utilization and marketing.

This book of 348 pages, well illustrated and provided with a good index, is bound in red cloth in keeping with the other books in the American Forestry Series, of which Walter Mulford is consulting editor.

### BULLETINS RECEIVED.

Thirty-eighth report of the Connecticut state entomologist, issued as bulletin 428 by the Connecticut agricultural experiment station, New Haven, covers 1938, the last year of administration by Dr. W. E. Britton, who filled the office from July 1, 1901, until his death, February 15, 1939. This 124-page book contains some useful comments on the control of cer-



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Now Equipped with the New

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**NURSERY  
HAND TRUCK**

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Illustrated

**\$27<sup>50</sup>**

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Kansas City



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## CARLOAD LOTS

ELM, American, Moline and Vase, up to 4 ins. All transplants.

MAPLE, Norway, up to 3½ ins. Transplants, extra select, spaced 7x7 ft.

POPLAR, Lombardy, up to 2 ins. WILLOWS, Thurlow, up to 3 ins.

BARBERRY, Thunbergii, up to 2 to 3 ft.

SPIRÆA, Vanhouttei, up to 5 to 6 ft.

APPLE, 2-year.

CHERRY, 1-year.

PEACH.

All of above items can be supplied in carload lots.

Send for list on many other items.

**C. M. HOBBS & SONS, INC.**  
Bridgeport, Indiana

Largest Nursery in Indiana. Est. 1876.

## Apple and Peach Trees In Carload Lots

A long variety list to select from. We also can offer other Fruit Trees in carload lots, as well as Tennessee Natural Peach Seeds.

If you are interested in either Fruit Trees or Peach Seeds, send us your want lists and we will quote attractive prices.

**SOUTHERN NURSERY CO.**  
Winchester, Tenn.

## PEACH PITS

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Howard-  
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Company

Hickory, N. C.

## PEACH PITS

Our Pits Compare Favorably  
With the Best

**HOGANSVILLE NURSERIES**  
HOGANSVILLE, GEORGIA

We offer general line of

## FRUIT TREES

Heavy on Apple and Peach. Can furnish by carload. Send us your want list. Write for prices.

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Decherd, Tenn.

## WHOLESALE GROWERS

Specializing in  
EVERGREEN SEEDLINGS  
TRANSPLANTS AND APPLE TREES  
Write for price list.  
Send us your trade list.

**MATHEWS EGGERT NURSERY**  
North Muskegon, Mich.

tain insects, in addition to enumerating the activities and accomplishments of the state officials during the year, in control of the gypsy moth, corn borer, Japanese beetle, elm bark beetle, etc. It also includes the list of Connecticut nurseries certified by the state inspector in 1938. The list contains 402 names, an increase of twenty-five over 1937, totaling 5,031 acres, an increase of thirty acres over the preceding year. Eighteen nurseries in Connecticut operate fifty acres or more; forty-five, ten to forty-nine acres; thirty-seven, five to nine acres; 102, from two to four acres, and 200, one acre or less.

"Forestry in Wisconsin," circular 294 of the extension service of the college of agriculture, University of Wisconsin, by F. G. Wilson, Wakelin McNeel and F. B. Trenk, tells in sixteen pages about the rise of national, state, county and school forests in the state of Wisconsin, as well as their operation and that of private forests in the state.

Service and regulatory announcements issued by the bureau of entomology and plant quarantine of the United States Department of Agriculture from April to June, 1939, appear in a 44-page pamphlet. They have to do with Japanese beetle, Mexican fruit fly and white-fringed beetle quarantines, terminal inspection of plants and plant products and import restrictions of several countries.

The new use of methyl bromide as a soil fumigant by nurserymen in the Japanese beetle and white-fringed beetle areas makes of special interest the publication of the third edition of its booklet on this chemical by the Dow Chemical Co., Midland, Mich. In twenty-four pages are told the properties and uses of this chemical, which is employed for several types of fumigation. Copies will be supplied readers upon request to the Dow Chemical Co.

MAURICE CONDON, of Outpost Nurseries, Inc., Ridgefield, Conn., was a speaker at the Garden Center, New Canaan, October 6.

ARTICLES of incorporation of the United States Nurseries Co., to be located on South Third street, Louisiana, Mo., and capitalized at \$10,000, have been filed at Bowling Green, Mo., by Tom W. Stark and Alice T. Stark, Louisiana, and Oliver True, Port Huron, Mich.

## DELPHINIUM

New Crop Seed Ready Now

Giant Pacific Hybrid  
(Vetterle & Reinelt)

**GALAHAD SERIES** (New). Clear white, finest white Delphinium in existence from seed. (Originator's seed only.) Tr. pkt. \$2.00; ¼ oz., \$4.00; ½ oz., \$7.00; 1 oz., \$24.00.

\***BLUE SHADES**. Most popular strain. **LAVENDER PASTEL SHADES**. Mixture of pastel lavender shades.

**VIOLET SHADES**. Deep rich violet blue. **PASTEL SHADES**. Fine pastel mixture.

\***MIXTURE**. A complete mixture of all above and many intermediate shades. Prices on above, except first item, each: Tr. pkt. \$1.00; ¼ oz., \$2.00; ½ oz., \$3.50; 1 oz., \$12.00.

\***CLEAR WHITE**. Very large, clear white. Tr. pkt. \$1.25; ¼ oz., \$2.50; ½ oz., \$4.00; 1 oz., \$14.00.

### Standard Varieties

\***BELLADONNA IMPROVED**. Standard light blue. Tr. pkt. \$3.00; ¼ oz., \$6.00; 1 oz., \$1.85; 1 lb. \$24.00.

\***LAMARTINE**. Fairly deep, extra bright marine blue. Tr. pkt. \$3.00; ¼ oz., \$1.60; 1 oz., \$5.00.

**BELLAMOSUM IMPROVED**. A reselected strain. Tr. pkt. \$3.00; ¼ oz., \$6.00; 1 oz., \$1.85; 1 lb. \$24.00.

**BLACKMORE & LANGDON HYBRIDS**. Fine free-flowering long-stemmed. Tr. pkt. \$6.00; ¼ oz., \$3.00; 1 oz., \$3.00; 4 oz., \$9.00.

**WREXHAM OR HOLLYHOCK STRAIN**. Extra-large tapering spikes. Tr. pkt. \$6.00; ¼ oz., \$1.50; 1 oz., \$5.00.

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WEST CHICAGO  
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## Vitamin B<sub>1</sub>

—FOR PLANTS

... That amazing, life-giving plant tonic. Experimenters report many startling results.

Don't pay layman-consumer prices. Supply your own loophole and eyedropper! Buy in wholesale quantities—get more for your money.

New prices: Two decigrams (2/10 gram) —\$2.00. Five decigrams—\$3.95. One gram—\$5.85. Five grams—\$27.75. (One gram makes up to 30,000 gal. watering solution.) Write for attractive quantity prices and terms. Send trial order for gram TODAY.

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Ner. Dept. 519 Paramount Bldg. Des Moines, Ia.

We are collectors of  
**NORTHERN MINNESOTA TREE SEEDS**

Including  
Pinus Banksiana, Jack Pine  
Pinus Strobus, White Pine  
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Picea Canadensis, White Spruce  
Write for prices.

**Bear Creek Evergreen Nursery**  
Shevlin, Minnesota

**North Dakota and Montana Seeds**

**JUNIPERUS SCOPULORUM** (Silver cedar). Reserve supplies now. Rhus trilobata, Prunus Besseyi, Mahonia repens and other seeds. Native plants and seeds.

**E. C. MORAN**  
Medora, N. D.

**LONICERA JAPONICA HALLIANA**

Per 100 Per 1000  
Lining-out div. .... \$0.50 \$6.00  
Large 2 to 3 yr. .... 6.00  
Can use Berberis, Privet, Spiraea, Elms in exchange.

**BURKMAN'S NURSERY** Rescoe, Ill.

Please Mention  
**THE AMERICAN NURSERYMAN**  
when writing advertisers

## SHORT ROWS

Did it pay profit? Progressively, growers and sellers of nursery products are developing practical analysis for dependable knowledge of cost at that precise point in the transaction where they hand the article to the buyer, for the price that is asked—or that he will pay! They have proved to their satisfaction that "break-even" on this and "make-up" on that may be occasional necessity, but that it isn't good horse-sense policy.

Can't recall at this minute where we saw it, but a complete bell-buzzer system at a nursery—synchronized signals at many strategic spots, in buildings and on grounds—keeps on sounding automatically until the man wanted reports to headquarters in person or on the telephone, an efficient time-saving service.

At the nursery sales-places last spring you thought of the evolution of packaged plants which has been going on through the past decade. And the improved shipment containers you saw at packing house and platform express it. Eye appeal and proper protection are joined. The grocers started it with sugar, crackers and cheese. The nurserymen and seedsmen and florists are making it close to a fine art.

"Efficiency in the nursery business," said an old-timer, "proves itself as such if the dozens and hundreds of jobs which are the nursery business get done easier and fit together better. The easiest way to get any job done—and done perfectly—is the most efficient way. There is no virtue in unnecessary exertion. There is quite enough necessary exertion inherent in this industry, with every unneeded motion, every duplication, removed."

Unicameral government of A.A.N., now by a "Congress" with "Senate" and "H. of R." rolled into one chamber, puts it up to the state groups to send "congressmen" who will combine senatorial conservation with progressive democracy.

The nurseryman of today is losing his comfortable old back-yard privacy. More and better converging highways—more cars—more people approach

him from unexpected directions, all potential customers. Show ground opportunity occurs on every side of the lot. There is a steady evolution which is making the picture of the future nursery resemble a park, with regiments of trees and platoons of plants on parade.

These "gems" of current roadside publicity were seen on a recent weekend tour, as nursery sales-yard slogans:

"As good as the best—better than the rest."

"We assure satisfaction with each transaction."

"All that's best at lowest cost."

Somewhere on one of Ohio's excellent highways, the police greet you with this standing invitation: "State Highway Patrol. Visitors always welcome." Times have changed. Last time we called at one of those places, we were "personally conducted." Next time we pass this one we are going to accept the welcome invite.

Though going through the town at a careful 20 m.p.h., we wanted to believe our eyes, so came to full stop in front of this mortician's to get the spelling: "Doom Brothers—Funeral Directors."

Two cautions appear on one of those sky-limit highways: "Will that minute you save fill another green grave?" "Slower please—Death is so permanent."

## SOUTHWESTERN NEWS.

The city of La Crosse, Kan., is planning to develop a new park approximately two acres in extent.

Elsie Mentzer is operating a flower shop at Pawnee, Okla., which she bought from William Bruington, florist.

Mr. and Mrs. J. P. Foster announce the marriage of their daughter, Doris Mabel, to William K. Byrne. The ceremony took place October 21 at Huntsville, Ala., where the young couple will be at home. Mr. Foster is with the Pfund-Bell Nursery, Elmhurst, Ill.

The contract for landscaping the John E. Morell property, at Topeka, Kan., was secured by Rhea McCandliss, "Hortensia." The planting of the large shade trees was sublet by Miss McCandliss to the Williams & Harvey Co., Kansas City. This is one of the largest private landscape contracts to be let in Topeka in recent years.

Henry B. Chase, president of the Chase Nursery Co., Huntsville, Ala., has been making a trip with Joseph B. Falt, Jr., through the southwest for the purpose of introducing Mr. Falt to the trade in that territory. Mr. Falt is assistant to the president of the company.

George Harris, of C. R. Burr & Co., Manchester, Conn., recently made a trip through the south, going as far west as Texas, where he visited

## Don't Buy Any Nursery Sprayer Until You Have Tried the **PARAGON No. 5** With Money-Back Guarantee



We ship, freight paid, complete for 10 days' trial with money-back guarantee, with 25 ft. high-test spray hose, 10-ft. extension spray pipe and 3 nozzles.

Fill the 50-gallon container with any spray solution, whitewash or water paint. Take it anywhere; the wide convex steel wheel rims can't cut into turf; low suspension of removable container in steel chassis prevents upsetting on hillsides. The extraordinary pressure and long high-test spray hose enable you to do a thorough job of spraying or painting with very little effort and without changing location of the Sprayer.

Brass Air Compression chamber is 12 inches high by 4 inches diameter, with cast bronze top and bottom caps. Pump body, plunger and strainer also of brass, designed for lifetime service. Two agitators prevent solution from settling in container or clogging nozzles. Mail coupon for catalogue and 10-day trial offer.

**THE CAMPBELL-HAUSFELD CO., 1103 State Ave., Harrison, O.**  
Send Free Catalogue, Price List and Trial Offer on Paragon Sprayers.

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16-in., 3c.  
Mixed with Red Huskus, add 50 per cent.

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the extensive rose plantings of his firm at Tyler and saw his mother, Mrs. R. A. Harris, and his sister, Mrs. Paul Harrison, at Dallas. Mr. Harris reports that he found it dry over all the territory he crossed.

The Mount Hope Nurseries, Lawrence, Kan., are increasing their facilities for propagating by building a greenhouse approximately 22x33 feet.


**SMITH STARTS AT OLATHE.**

The purchase of three acres of land to be used as the nucleus for a small nursery has been announced by Noel Smith, Olathe, Kan. Mr. Smith, now on furlough from the United States forest service, intends to propagate a complete line of perennials and shrubs and to offer a complete landscape service.

Formerly employed by the Davey Tree Expert Co., Mr. Smith at one time grew perennials and cut flowers for the Kansas City market. Later he was instructor in floriculture and gardening at the Kansas state reformatory, Hutchinson. He resigned to take a position with the United States forest service, and from 1935 to 1937 he was in charge of the landscaping of Lake Shawnee, Topeka, Kan. This project consisted of a 400-acre lake and a 600-acre park.

**RISE OF GRAND VIEW.**

Completing thirty-five years in business, the Grand View Nurseries, Mount Vernon, N. Y., were the subject of a full-page article in the home town paper, the Daily Argus. Francis P. Mirabelli, father of the three sons who now operate the company, first engaged in home landscaping and gardening. Later he began bidding on government projects, and receipt of a number of these awards greatly increased the firm's activities. Upon the father's retirement, Anthony Mirabelli became president. Associated with him are his two brothers, Dominic and James Mirabelli. The newspaper article states that in September the Grand View Nurseries were successful in bidding on over a quarter-million dollars' worth of contracts. These included such projects as highway, school and post-office landscaping, as well as park planting materials and housing projects.



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## GURNEY'S FALL FESTIVAL.

Each year since 1928 the House  
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a fall festival to develop the good  
will which has built this enterprise  
to its present size in its seventy-  
three years of existence.

Besides selling seeds and nursery  
stock, the House of Gurney, Inc.,  
distributes WNAX petroleum prod-  
ucts, operating radio station WNAX  
at Yankton.

The big day of the festival was  
Sunday, October 22, when families  
came as far as 450 miles, and visitors  
were estimated at 30,000.

The company served pancakes,  
syrup and coffee, and the pancake  
line was continuous from 9:45 a. m.  
until 5:45 p. m. The number of per-  
sons in the line can only be estimated  
by the quantity of food consumed,  
and on that basis about 12,800 per-  
sons were there Sunday. The pan-  
cake line the first three days was  
estimated at 6,800, 9,500 and 10,500  
respectively.

To entertain the crowd the enter-  
tainers of WNAX were used in the  
studio, on the streets and in the  
rooms of the company. In the in-  
tervals were held such contests as  
nail-driving, potato-peeling, hog-call-  
ing, husband-calling, pie-eating and  
amateur.

## SPIRÆA ROSY BEAUTY.

Stock is being developed by M. J.  
Van Leeuwen, of the Continental  
Nurseries, Franklin, Mass., of a sport  
of Spiræa Vanhouttei, which he has  
named Rosy Beauty because of the  
color of buds and flowers. As they  
emerge, the buds become a rosy pink,  
closely resembling the formation and  
coloring of the flowering buds of  
Daphne Cneorum. When the buds  
open, the petals of each floret are a  
pure white with a deep carmine strip-  
ing in the center. The seed pods are  
also rose-tinted, reports Mr. Van  
Leeuwen.

Stock is being worked up from the  
branch which sported on an old bush  
of Spiræa Vanhouttei in 1937, but it  
will be another couple of years before  
enough is available for a trade offering.

THE Japanese Nursery, Houston,  
Tex., will do the landscaping for the  
local negro slum clearance project,  
its low bid having been approved by  
the Housing Authority of Houston.

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[In writing for a copy of any of the catalogues reviewed below, please mention that you saw it described in the American Nurseryman.]

**Chase Nursery Co., Chase, Ala.**—Fiftieth-anniversary trade list celebrates the event with 128 pages on enamel paper in yellow paper cover, numerous illustrations of stock in the fields, a 2-page airplane view of Chase and two plates in full color, of *Cornus florida rubra* and *Magnolia Soulangiana*. Descriptive paragraphs accompany the prices on the varieties of deciduous trees and shrubs, conifers, broad-leaved evergreens, vines and roses listed. Many items of lining-out stock are listed, as well as nursery tools and supplies.

**Forest Nursery Co., Inc., McMinnville, Tenn.**—Wholesale price list No. 2 for fall, 1939, includes in forty-eight pages and paper cover, pocket size, the usual list of shade trees, shrubs, hedge plants, evergreens, vines, fruit trees and lining-out stock.

**Easterly Nurseries, Cleveland, Tenn.**—Wholesale price list for fall, 1939, in eight pages carries limited list of fruit trees, conifers, broad-leaved evergreens and the flowering shrubs.

**Richmond Nurseries, Richmond Beach, Wash.**—Trade list of sixteen pages includes specimen conifers, broad-leaved evergreens and shrubs, deciduous shrubs and vines, as well as lining-out stock of some of the items.

**G. A. McKee Nursery, Jacksonville, Tex.**—Wholesale list of sixteen pages includes a considerable list of roses, fruits, especially peaches, and a limited list of trees, shrubs, evergreens and hedge plants.

**Bolen Florist & Camellia Gardens, Lucedale, Miss.**—Folder of ten pages picturing and describing varieties of camellias offered at wholesale.

**Atlantic Nurseries, Inc., Berlin, Md.**—Mimeographed autumn list of three large pages includes deciduous trees, shrubs, vines and roses, good until regular trade list is issued.

**Sneed Nursery Co., Oklahoma City, Okla.**—Wholesale price list for fall, 1939, twenty-four pages in pocket size, including evergreens, fruit and shade trees, shrubs and lining-out stock.

**Empire Nursery & Orchard, Baileyton, Ala.**—Wholesale catalogue for fall and next spring, sixteen pages, 5x10 1/2 inches, listing fruit trees, roses, broad-leaved and coniferous evergreens, hedge plants and other deciduous shrubs.

**EASY GARDEN TOOL SOLD.**

Purchase of the Easy garden raiser from the Cushman Motor Works, Lincoln, Neb., is announced by the Midland Co., hardware manufacturer, South Milwaukee, Wis. Patterns, dies, inventory, etc., have been moved to the new location, and this well known garden tool will be marketed under the same name, Easy, as in years past, states Vice-president C. P. Nourse.

**FILLMORE NURSERY**, a new establishment in Fillmore, Cal., is being operated by Charles Riland and Earl Maltby.

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" alnifolium, Hobblebush, d.b.....	.55	1.75
" cassinoides, Withe-rod, d.b.....	.55	1.70
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OF PLANT NAMES**

Containing 3,000 plant names and botanical terms, with accurate pronunciation and also brief definitions.

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For sale by

**AMERICAN NURSERYMAN**

508 S. Dearborn St.

Chicago, Ill.

**Abbreviatus** (a-brē'vi-ā-tus). Abbreviated, shortened.  
**Abelia** (ā-bē'li-ā; ā-bē'lyā). Southern flowering shrubs.  
**Abies** (ā'bi-ēz; ab'i-ēz). Fir.  
**Abobra** (ā-bō'brā). Cranberry gourd.  
**Abortive** (ā-bōr'tiv). Imperfectly developed.  
**Abroma** (ā-brō'mā). Australian woody plants; devil's-cotton.  
**Abronia** (ā-brō'ni-ā). Sand verbena; wild lantana.  
**Abruptus** (a-brup'tus). Abrupt.  
**Abrus** (ā'brus). Tropical vines; Indian licorice.  
**Abutilon** (ā-bū'ti-lon). Flowering maple.  
**Acacia** (ā-kā'shā). Flowering trees, shrubs; acacia, wattle.  
**Acæna** (ā-sē'nā). Nearly evergreen trailing perennials.  
**Acalypha** (ak-ā-lī'fā; -lē'fā). Chenille plant.  
**Acanthocereus** (ā-kan-thō-sē'rē-us). Trailing, climbing cacti.  
**Acantholimon** (ā-kan-thō-lī'mon). Prickly thistle.  
**Acanthopanax** (ā-kan-thō-pā'naks). Hardy Asiatic shrubs, trees.  
**Acanthophaenix** (ā-kan-thō-fē'niks). Spine areca.  
**Acanthophyllum** (ā-kan-thō-fī'lum). Grayish rocky plants.  
**Acanthus** (ā-kan'thus). Bear's-breech.  
**Acaulescent** (ak-ō-les'ent). Stemless, or apparently so.  
**Acaulis** (ā-cāl'is). Stemless.  
**Acclimate** (ak'lī-māt). Adjustment to different climate.  
**Acclimatize** (a-kli'mā-tiz). Adapting to new environment.  
**Acephalus** (ā-sef'ā-lus). Headless.  
**Acer** (ā'ser). Maple.  
**Aceranthus** (a-se-ran'thus). Maplewort.  
**Acerbus** (ā-sēr'bus). Harsh or sour.  
**Acerous** (ā-sēr-ōs-us). Needle-shaped.  
**Achene** (ā-kēn'). Hard 1-seeded fruit.  
**Achillea** (ak-i-lē'ā). Hardy perennials; yarrow, sneezewort.  
**Achimenes** (ā-kim'e-nēz). Showy flowering pot plants; summer.  
**Achras** (ak'ras). Sapote.  
**Achyranthes** (ak-i-ran'thēz). Bedding foliage plants.  
**Acicular** (ā-sik'ū-lēr). Needle-shaped.  
**Acidanthera** (as-i-dan'thēr-ā). Summer-blooming, tender corms.  
**Acineta** (as-i-nē'tā). Tropical American orchids.  
**Accolorraphe** (a-sē-lō-rā'fē). Everglade or saw cabbage palm.  
**Aconite** (ak'ō-nīt). Common name of aconitum; monkshood.  
**Aconitum** (ak-ō-nī'tum). Aconite; monkshood.  
**Acorus** (ak'ō-rus). Herbaceous marsh plants.  
**Acris** (ā'cris; ak'ris). Acid, sharp.  
**Acrocomia** (ak-ro-kō-mī-ā). Palms with spiny trunks.  
**Actæa** (ak-tē'ā). Baneberry, cohosh.  
**Actinidia** (ak-ti-nid'ī-ā). Woody vines.  
**Actinophloeus** (ak-ti-nō-flē'us). Cluster palm.  
**Aculeate** (ā-kū'lē-āt). Prickly.  
**Acuminata** (a-kū-mī-nā'tā). Tapering to a point.

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PLANT FOOD**

Nature's way of feeding plants. Cut down your replacements by using this high-grade humus mixture, which will feed the plant throughout the growing season. Clean, odorless and will not burn. Holds seven times its weight in water. Ideal for lawns, gardens, shrubs and trees. Gives you a three years' growth in two years.

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The same as Soilmaster except it is sour; used for acid-loving plants, such as blueberries, rhododendrons, evergreens, etc. Write for full information on our money-making proposition to nurserymen. Do not stock a single bag or spend one cent. We furnish the mat for your catalogue and do all the work. Just give us a little space in your catalogue or order blank; then watch your profits climb.

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**LABELS  
FOR  
NURSERYMEN**

**THE  
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COMPANY**  
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# HILL'S EVERGREENS

## Wholesale Catalogue

New fall catalogue for the trade has been mailed, but if you failed to receive a copy, we will send you it upon your request. We offer a large variety of Evergreens for lining out, also larger grades for immediate sale.

## A Dealers' Descriptive Catalogue

About November 15, this new issue, containing 60 color plates and including several new pictures of Japanese Yew, will be ready. One copy mailed free. Additional copies at 50c.

## Hill's Book of Evergreens

(Price \$3.50 each. Postage paid)

1,280 nurserymen have bought this book in the last 2½ years. 7,000 copies sold to date. This is an authentic and simplified discussion of Evergreens designed to be of help to nurserymen and nursery salesmen. We gladly mail copies subject to approval.

## D. HILL NURSERY CO.

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You Can Erect or "Knock Down" This  
**TREE MOVING CRANE**  
ON YOUR TRUCK in 10 Minutes\*



Above: The Winch rapidly raises the Crane into position. The new Crane is ideal for Arborists and Tree Experts.

- Put it up or knock it down in fastest time! Operators praise the new Gar Wood Tree Moving Crane—simple, light, safe and low in cost. The unit consists of an all-steel platform body, tool boxes, adjustable jacks, universal sheave block, complete rack sides, Gar Wood Mead Morrison 3MB Winch with niggerhead, two speed forward and reverse power take-off, all controls and Crane complete with wire rope.

Write now for descriptive Bulletin W148.

\*according to user's report.



PREPARING TO RESET. Tree bolls up to six feet and three tons are quickly picked up.

READY TO LOWER. When the Crane is removed, platform is left clear for other work.

SET IN PLACE. Inset: The Rack Sides may be carried with or without the Crane in place.

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